TORREY 28
HERBARIUM

Cambridge, 5th January 1844

My Dear Doctor,

I had closed a parcel of letters one of which contains some memoranda for your use (chiefly about *Chiogenes*), but the parcel has been detained until to-morrow, and I have opened it to add this hurried note upon a matter which has just come to my knowledge, and which I wish to bring to yours, in the event of a direct application not having yet been made to you.

I have just been asked to sign a memorial recommending ~~Mr.~~ Prof. Elias Loomis of Western Reserve College for the chair of *Mathematics &* *Mechanics* (I believe this is the title) in the New York City University, for which he is a candidate. I need not say that all the scientific men of our University will most cheerfully support his claims. Prof. Henry, who estimates him so highly, will doubtless send strong testimonials from Princeton.

I trust you will write in his favor, at once, if you have not already done so, to the Chancellor, or to Mr. George Griswold, the Chairman of the Committee of appointment, and, if you have not time to see Mr. Redfield in person, I beg you will drop him a line on the subject.

For it seems very

desirable to secure to a man of so great promise in physical science the advantages of a central position like New York.

The muscological parcel &c. came safely, for which many thanks; — still more for your valued present.

I remain, ever Yours,

Asa Gray

To Prof. John Torrey

No. 30 MacDougal St.

Favor of Wiley & Putnam. } New York
A. G.

TORREY CORRES
19
HERBARIUM.

Cambridge Saturday Evening. 17th Feby.
1844

My Dear Doctor

Your kind favor of the ——— postmarked 15th inst. reached me this morning, just as I was going to town with a great press of business which has occupied me the whole day, or I should have answered it at once. I have had much anxiety about young Macrae of Montreal, who came on here three days ago — made me a visit early in the morning, and who is evidently laboring under partial insanity. Surprised at his conduct I hurried to town, saw Tuckerman, whom he had kept up all night — and became convinced, as was all the family there, that he was really insane. Tuckerman — to whom he had committed the charge of his money & his pistol, we agreed should keep him that day; get him to sleep — which he had not done for days, and then, if not showing more sanity take him quietly to the Asylum here, an admirably arranged institution. I called upon Greene to secure his counsel, and returned to Cambridge with the conviction that all would be well arranged. (Macrae was on his way to England via New York — for no earthly purpose that I can see. How his friends could allow him to leave home surprises me. From what Mr. Carey spoke of his conduct at Niagara last summer, I have no doubt he has been partially deranged at times for months.) —

What was my surprise, on returning to Boston to-day, to find that Tuckerman — merely because Macrae insisted upon going from mere irresolution & timidity gave Macrae his money & pistol! and allowed him to go on to New York!

You may see Macrae — indeed I wish you would see Saml. Carey at once, if you have heard nothing of him, — and let him see whether any thing can now be done. My letter will explain any strange conduct that may have been observed. Had I time to give you the particulars, you could feel no doubt that the poor fellow has lost the control of his reason: though at times rational, and even suspicious of his situation. He asked Tuckerman once if he had not best to go for a while to the insane asylum!

My time of trial draws near. A week from Tuesday I begin. There has been a pretty brisk application for tickets. But I have yet very much to do. My two last lectures are not even _blocked out_ upon _paper_. Many pictures are yet to be made. And I shall have a busy time indeed until they are all delivered. The end will be a deliverance indeed. Yet strange as it may seem, my spirits are rather on the rise; – though I will not answer for them for 10 days longer.

I have written an introductory, which, with a few more touches I shall be satisfied with. And some of my lectures which have least illustration – such as that on food & nutrition – are pretty carefully written out. I have contrived a diagram illustrating the cycle of relations of 3 kingdoms, which I think is capital (as it is quite original) and which I long to show you. If I had three months more, I am convinced I could put my materials into the form of a _capital course of lectures_.

As soon as you have finished your lectures, will you kindly send me the _College drawings_, and also your own – those I had last year, as there is quite a number of them I shall want to use in my College course.

How glad I am to hear that Mrs. T. has so far recovered. But she must be exceedingly careful or she will be down again as low as ever. I am glad the boys are _off_ at last: but fear Mrs. Torrey's exertions about it will have brought her down again.

I send you the _Puritan_ chiefly for the brief report of _President_ Hopkins lectures; which I hear have been deemed very interesting.

I daily expect 8th vol. of _DC._ prodr. at Wiley & Putnams. The printed sheet I send you by mail, with this, will best answer your enquiries as to its contents, as also of the ensuing volumes. Please send it back to me – in the tin box – as I have no other copy.

As to Kunze's Continuation of Schkuhr for Dewey, I ordered the first no. for him, & on sending that I think asked him if he would have the ensuing as they appeared. As mine is a presentation copy I do not like to spare it: though I will of course lend it to Dewey, if he wishes it before he can procure it from London, through the booksellers. –

Your Ericaceous questions come at an inopportune time for me to answer. Some of them I am unable to answer; nor can I predict the shape which some of them will assume when they come up for the Flora. According to my notion however, you will have to keep Monotropeae as a subordinate if you do Pyrolaceae &c. – How does it differ from Ericaceae, comprehensively considered except in the want of green foliage. (which happens with some Orchidaceae &c) When you are ready I will send you both editions of Linn. Spec. Pl. if you wish them. Indeed I see not how you are to get on, in advance of the Flora, without them.

Zuccarini wrote me a year ago – when he sent the Japanese plants that we looked over together – that the Japanese species utterly confounded the difference between Rhododendron & ~~Azalea~~ Azalea: decandrous species having deciduous leaves, &c — If they must come together (& DC. seems doubtful) it would be pity you did not follow that plan, as you so early adopted it. Then after all, in such case, are the Azaleas as they will ever be called in cultivation, to make the section Azalea, or is A. procumbens to take that name? In MSS. I have not hesitated to adopt the Linnaean specific name of hispidulum for the Chiogenes, as I think I wrote you.

In an old letter I gave my views about the sections of Vaccinium, to one of which I reduce Oxycoccus (which I think I must have done were there no V. erythrocarpon, – which, by the way, I put into a separate section)

But your great difficulty is with the names even of your common Vaccinia, nearly all of which, except corymbosum, will vary greatly as to names from the common acceptation. I know not what you will do, if you must print them before April or May. I should need an entire week, with a very clear head to put the nomenclature of the genus into shape from the means in my hands, and Boott's curious new comparisons. —

If you think it best to do them according to the new lights, I will see if we can jump over some of the difficulties. But you may well imagine that I cannot turn a thought that way, at present.

I wish you could see my Lowell anatomical illustrations. The pity is that I shall hardly use them in this course, now that my introductory only brings me down to them (but I shall have them spread to look at), and I can only ~~[illegible]~~ give to the subject about 20 minutes of my second lecture.

But it is very late indeed. Adieu

Yours cordially A Gray

Monday Morning.

The valuable package sent a year ago to Delessert, for several French Naturalists, (and which I feared was totally lost) has at last come to hand, as I learn by a note from Dr. Montagne, and some communications for Sullivant which have passed through my hands.

I have a letter from Prof. Gibbes of Charleston - who says his health has suffered much during the past year. He thinks you owe him a letter, but says he shall write you soon.

I have also a letter from Curtis: nothing in particular, except that he says he has sent me a box of roots - which have not come to hand.

Has Henry decided to leave Princeton and take the Philada professorship? I wish you had a good professorship there, where pay, if it be not very large, is prompt and certain.

If I understand you are now perfectly cleared from pecuniary obligation on account of the unfortunate Lyceum?

In haste - as you may imagine,

I remain Yours faithfully

A. Gray

Recd March 7th '844

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY.

Cambridge Friday evening. March 1.

TORREY 24 HERBARIUM.

1844

My Dear Doctor

I have just been buying a new ream of *flat cap*, much better than the usual — (indeed it cost more); and I honor a half sheet of it on this occasion.

The tin box, with your letter of Feby. 28th came to hand yesterday noon. What a heap of Sugar plums! and in *time* too; — for by a curious coincidence, in my last, I had asked Jane to send me some peppermints, — which are good for lecturing on. As these came unsolicited, my thanks are the more due to Miss Jane, to whom I cordially offer them. I would write, did time allow.

Well you have heard what I had to say about my introductory. I was satisfied. I said plainly what I intended to say, and delivered it not very *well* indeed, but *well* enough to satisfy me that I could do *well* with practice

This evening I have made a second *trial*, and a more *trying* one by *far*. I have a cold, and am a little hoarse, which was a good thing, for as to voice I filled the house. —

As I was full of illustrations, quite as much as would cover the whole side of a *barn*, I determined to try the experiment of lecturing by the general guidance of my notes only (which indeed were ~~half~~ partly written out.

So with the long pole in hand to point at the pictures I set at work, and talked away for an hour & 10 minutes.

I felt like a person who can hardly swim thrown into the river, fairly in for it, and to kick and strike to keep my head above water. The results are these.

I was by no means satisfied, and thought I had made almost a failure. I left out many important points, I repeated myself a little now and then, and - the usual result of extemporizing I did not get through, but was obliged to break off in the midst of the best of it. But, in spite of some difficulties of expression, and bad sentences - the whole was probably more spirited to appearance than if I had followed my notes. And the audience generally seemed more moved by it than by the first.

I consider it thus far successful; that under unfavorable circumstances; for I had no time to look over my notes beforehand. I made a *desperate lunge*, and yet avoided a real failure.

COLUMBIA

It will place me so much at ease, that I
can hereafter, with or without notes, look fairly at
my audience without _wincing_. So I shall do
better hereafter. I try it again (repetition) to-
morrow afternoon: but in the morning I must try to
snatch a moment's time to despatch a parcel to
you, with the books &c. you wish.

— You say Chiogenes will only differ from Vaccinium
(including Oxycoccus) by bibracteolate calyx. But the
Vaccinia of the Vitis-Idaea section have this char.
(or at least bracteolate ~~pedicels~~ which is the same
thing. But I say the anthers are different;
2-cuspidate (not with 2 tubular horns): in
fact the genus in _habit_ & char. is just _Per-
nettya_ with an [illegible] adherent calyx.

I send you my notes, as far as written
before I left for the South last summer, —
and with all Boott's memoranda as material.
It would be crazy for me now to ~~attempt~~ to make the
to make any memoranda, or even
corrections that the new data require.
Conclusions formed in _hurly-burly_ are
good for nothing: and I cannot, and must not
think of any thing but my task. The two
last of my lectures are not even arranged _yet_.

ENCE UNIVERSITY

You say you "return the prospectus of the Prodromus", but it has not come to hand.

I wonder the 8th vol. has not yet reached N. Y.

You ask me to order a copy of Walpers' Repertorium for you, but you will not need it, as you can use mine. It comes rather high. I have the 1st vol. & 2 fasc. of the 2nd — in all 1300 pages, — goes down to Umbelliferae. Expect more. I know more is published. It is a mere gatherum.

I send you Joe Hooker's letter, which I answered this morning. Please return it in next parcel

But it is ½ past 12 and I must go to bed, and get rested for to-morrow's labors.

Tell Dear Herbert I am very sorry he has been unwell and has had a bad cough; and that I look at his picture every day. My love to him.

Cordially Yours

A. Gray

Hooker had not received the 8th vol. of DC. prodr. in February last

Cambridge Monday Morning, 25 March

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

(1844

My Dear Friend.

Yours of the 19th & 20th I have just taken from the P. Office; – I having been detained in town all Saturday afternoon & late in the evening. – It is astonishing how long letters are coming from New York. As I have a few moments leisure this morning I will commence my reply. – tho' as regards the Vaccinia – as you have all my notes, I doubt whether I can answer your questions – all of them, explicitly.

There is no doubt with me that Vac. hirtellum is only a var. of V. dumosum, by no means constant. You find my opinion in the ~~notes~~ MSS. on Vacciniae in your hands. But why do you say the former name is the oldest? since it was only given in 1811 (Hort. Kew. ed. 2); while V. dumosum Andr. bot. rep. vol. 2. was published in 1800. (See a part of a copy in Society Library of New York)

I believe my MS. states that DC. has wrongly placed V. arboreum in this subdiv. antheris muticis. I had not seen its ripe dry fruit when I wrote. – but only young. I have since gathered it ripe. I still think it should best be placed with V. stamineum: but the latter might be kept in a separate section, on account of its few seeds, which is the only difference. Nuttall's making them genera is rank nonsense. Nuttall's works in botany with a reckless, dishonest heart, and is of course always doing harm, even when he makes good hits.

My observations last summer confirm my conclusion – (in MS – which I thought agreed with yours) that V. elevatum is not distinct. His Florida species is the same thing undeveloped. I have a bit of it within reach in Herb. Greene.

Fortunately the 1st vol. of Lam. dict. (1783) is older than Hort. Kew. ed. 1 (1789) so that V. Pennsylvanicum may have priority. (Lamark's original character leaves an obscure point; but I think we must consider it his.)

I think the narrow leaved alpine plant, which is V. angustifolium, Ait. (& therefore H. Kew.) (but not V. angustifolium, Wats. dendr. at all) is only a variety. but am not sure.

If distinct, it will of course carry the name of angustifolium.

I believe you have not V. caespitosum Hook in New York. You see Boott has a quiddity about that.

You will indeed have trouble with the V. corymbosum group: but you have the means of saying what the original V. corymbosum Linn. is; and then the principal question is whether the downy-leaved & black-fruited one is a distinct species or no.

Pray manage this so as not to commit the Flora on that point (or at least leave it open).

And for all the rest of Ericaceae pray do - as you will have to do beyond, work out your views as well as you can, but do not commit the Flora by citing it ahead.

Your remarks on Chiogenes (12th March) all go to show how it allies with Pernettya. The derivation evidently from Chion Snow & Γενεα = progenies. Snow-born

The parcel - whose arrival is announced in your P.S. was announced by me in my letter to Mrs. T.

Has my later letter to Mrs. T. (mailed last Tuesday or Wednesday) on a sheet of paper like this, come to hand.

The Steamer has just brought me a letter from Hooker - He states that he has written to you, by the same mail. (By the way you have still my letter from Joe Hooker.) (I received a day or two since your bundle containing the Botanical Illustrations.

As to Buckley, Pamplin writes:

"Buckley's plants, I am sorry to say, do not please. I told you before I had sold one set. Mr. Fielding has one now on inspection, but I do not think he will keep it." But I have a letter from Fielding - (to whom I recommended these plants) who says. "

"Pamplin will send me one of Buckley's collections to look at, but he says, as you do that they are poor specimens. Still if they contain any number of species new to me I shall certainly retain them."

This is all as I feared; and as I spoke plainly to Buckley at the time, I have nothing more to say.

He had best give his instructions directly to Pamplin himself (Wm Pamplin, no. 45 Frith St. Soho, London) I think that, as the new species it contains happen to be more noticed - in Sill. Jour. there will more purchasers offer. I have been careful not to send a single specimen of my last collection abroad, so that these cannot anticipate any of his subscribers.

Poor and insufficient specimens cannot be sold in England - when the market seems to be drugged with good ones.

Fieldings long expected box came in the last Steamer, but has not yet reached me.

I think I should be an unhappy - discontented, unthankful person not to be gratified with the success of my Lectures. But it is not likely to turn my head. Every thing proceeds quietly & soberly. I purposely directed no tickets to be sent to a paper that often reports lectures, as I did not wish it done. There has not been a line in the papers about the matter, except the very considerate notice about the beginning which I sent you. My last week's lectures are called much the best. The first on the anatomy & physiology of leaves and perspiration exhalation & its consequences. - occupied an hour & 20 minutes. My last - on food of plants - veg. digestion and the relation of plants to mineral & animal kingdoms - in which I did my very best - & which required (& secured) the most intense attention on the part of the audience for 100 minutes, was received with an intelligent enthusiasm which did the audience credit. For it would be mere affectation for me to pretend not to know - as I well do - that it is one of the best scientific lectures that have ever been delivered in Boston. I have none left to compare with it. I have only 4 more to give, during which I dare say the interest will fall off, - which will not disappoint or mortify me. From your truly kind remarks and warnings I suppose you look upon my success in this undertaking as extremely hazardous to my best interests. Now this ~~duty~~ came to me unsolicited and unexpected. I accepted it because I thought it was my duty to do so. Then I was of course bound to make every consistent effort to ensure success. While viewing it at a distance, I felt much anxiety. But before I commenced this entirely disappeared, and I have gone on just as cooly as you might do with your Chemical course. I am thankful that (owing chiefly to the nature & novelty of the subject) I have done my work creditably. The little eclat which attends it, I am not so foolish as to care any thing for - pro or con. It is entirely ephemeral. It may gratify my friends; but it does me no good, & I trust no harm

The general result may benefit the science of this part of the country. It will probably tend to advance my interests, as I certainly wish it may, the objects of my ambition being high and honorable, as well as moderate.

Though I feel that I often – always – fail to do my whole duty; yet I do not feel, nor believe that a perfectly consistent Christian course would expose me to persecution; nor that obloquy is a test of Christian Character. These are to be borne like other evils, when they ~~would~~ are incurred in the course of one's duty; but surely they are not to be sought, nor viewed as a test. Under the circumstances under which we are placed, would our unexpectedly meeting with obloquy be any test to us that we were doing right? Would it not lead us to suspect we had been, at least unwise? Such men as Payson or Edwards – though they may often have been pitied, I suspect were never persecuted. But, while I think you take a one-sided view and assume an unscriptural test, in your own case, I thank you most sincerely for your kind admonition to me, and will try to profit by it. My sheet is fairly full.

I need not say how delighted I should be to see you here; but you must not come till the spring has fairly commenced – at least. The weather is excessively unpleasant, the roads almost impassible: it snows every 3 or 4 days, and not a speck of green is yet to be seen. A month later it will be comfortable here. I fear I shall not have a place to receive you before autumn, as a house is yet to be built for Dr. Walker. But I should still like to have a visit from you in the course of the summer. Must I address my next letters to Princeton?

Yours affectionately,
A. Gray

1/8

John Torrey
Esq.
No. 30 Macdougal St.
New York

Single

March 26. Package from Hooker containing 2 more parts of Jour. Bot. & Species Filicum part 1, just arrived.

TORREY 3|
HERBARIUM.

Thursday Morning 28th March.

My Dear Doctor.

Having to send a parcel for Sullivant to New York, I enclose in the cover to Wiley & Putnam a little parcel for you containing 2 more nos. of London Journal of Botany & the first part of Hooker's Species Filicum. — announced in my last letter. The parcel came by Harnden's Express, and I have not yet learned the charges upon the whole — doubtless more than they would have been if it had come in one of W. & P.'s cases. —

My box from Fielding has come to hand. — many good plants, from S. America chiefly, — but the usual story — many unnamed. There are one or two Brazilian Gaylussacias. A few good plants from Russian N. America and the adjacent parts of Asia —

Fielding Sertum plantarum, part 1. — contains one N. American plant — viz. *Stellaria Nuttallii*.

I have ordered the Botany of the Voyage of the Sulphur (Bentham & Hinds) in the Pacific: the parts already published ~~com~~= comprising chiefly their Californian plants - mostly South Californian, however, and beyond our range. Among them I hear they have figured a new Lamesia! which must be quite an accession, and will complete our knowledge of that genus, founded on a mere fragment.

I was quite unwell on Tuesday - an intense headache with fever: yet I crawled into town in the afternoon and continued to give my lecture, which I think did me good: when, by Mrs. Emerson's excellent nursing I was able to repeat it yesterday afternoon - with comfort. To-day I am quite well again.

I must work diligently from this to the end - and with haste - remain

Yours affectionately

A. Gray

EY CORRESPONDENCE
HERBARIUM
COL UNIVERSITY

P. O.

Prof. John Torrey
no. 30 MacDougal St.
New York

Cambridge, Wednesday morng
17th April, 1844.

25.

My Dear Friend

I send a hurried line to inform you that I yesterday afternoon sent to your address a small box of live plants by Adams' Express to the care of Wiley & Putnam (Freight paid to N.Y.) The box came from the garden too late yesterday to apprise you of it by the last mail. I ~~trust~~ you will find means of getting it from New York at once.

The plants are all labelled by Mr. Carter, but his orthography is not always very correct. I indicated a few herbaceous plants to him, many of them annuals, which having been brought forward in pots will flower much sooner & better than if you were to attempt to raise them from seeds. e.g. Limnanthes Douglasii, the new Gaura Lindheimeri, which is a fine flowerer, — Verbenas. &c — Also Primroses, Dodecatheon, Funkia, &c.

I have no list by me. & I told Mr. Carter to add any thing else he thought would bloom well. I had no time to look after them personally: my lectures & recitations in college now occupying every afternoon except Friday & Saturday.

If you can give them a pretty good soil, and protect them from the sun (those that have been taken directly from the green-house, I doubt not they will flower well.

I expect some fresh flower-seeds by the next packet. If they come in time I will send you some.

Can you not send me some *Obolaria* plants – coming into flower that I may watch them. Brown has promised through Boott, to send a note on the carpological structure. I trust he will.

I have just transmitted by mail ten dollars to Knieskern, to aid him in buying paper for his present collections; and begged him to send me a few dried plants for Mr. Fielding - to whom I am in arrears.

Through the Paris publisher, Boissier has just sent me a few more numbers of his Flora of Granada.

I have heard from none of you since Mrs. Torrey's letter of the 8th.

On Friday evening last we had an interesting address, and on Sunday morning a noble sermon from Mr. Chalmers of the Scotch delegation - (the most interesting man of the set, I suspect) - and we collected over 100 dollars in a contribution, poor as we are. We are planning to enlarge our church edifice, - which indeed is becoming quite necessary.

—— You have not returned my letter from Joe Hooker; nor the advertisement of DC. Prodr. Leave at Wiley & Putnams to come in next parcel -

Have you got the Kunth. Enum. vol. IV. I sent some time ago? —

Love to all - In haste, Yours faithfully
Asa Gray

CORRESPONDENCE ... ITY.

18^{3}

Prof. John Torrey
Princeton
New Jersey

Cambridge. Friday afternoon
24th May. 1844.

27

My Dear Friend

Your kind favor of the 21st inst reached me just now: about 2 hours after Mrs T. must have reached you at Princeton. You will thus obtain the latest news of me. I have not had time to write for a week or ten days a letter to any one, and there is a fine accumulation on my table. But I will begin with yours, as indeed I have two unanswered from you. and will touch upon such points of your queries that I can en passant answer.

First of all let me hope that Dear Mrs. T. has returned with renovated strength. I have no doubt the excursion has done her good; though for want of time we have perhaps attempted to accomplish too much, and taxed her powers perhaps too greatly. We are far from having seen every thing: But then, I expect another visit, with yourself and Herbert, when I get into the new house.

Tell Mrs. T. that after leaving her in the cars I reached Cambridge and my lecture room just in time, and gave my lecture with great spirit. In the evening made some calls, and finished the day with a meeting of the Scientific club and a fine supper. Also say that, on visiting the garden this morning, I found that Carter had not put the seedling Nemophila insignis into the box, nor the Pinks. I hope he forgot no others. But on looking about to-day I see several things that I wonder I did not think of yesterday, such as Physostegia - which flowers very finely here. But you will not succeed in making many plants grow unless you shade them with large pots for a week when the sun shines.

I have great doubts whether you have done well in ordering a hundred dollar microscope from Chevalier; and would suggest the propriety of your countermanding the order, at once. It is not enough for a real good one, unless you very particularly specify what parts & powers are to be sent and what omitted: and if it does not suit you I think you may be too sanguine in thinking you can readily sell it at cost. But chiefly because I would advise you to get instead a cheaper *compound* microscope of Chevalier's, which is much used here (one stands now before me) which is very good indeed: good enough for any thing in structural botany—and which costs only about the price of the simple microscope I have, viz. about 25 dollars in Paris.* I have been using Dr. Wyman's of late—of this sort, and it works well. *By* the way, I have been studying fertilization a little, and have got out pollen-tubes of great length; have followed them down the style;—have seen them in the cavity of the ovary, and *close to* the orifice of the ovule.

My first *views* were in *Asarum Canadense* & *A. arifolium*: where I can very well see the *pollen-tubes* with even *my 3 line doublet!* I have seen them fine in *Menyanthes*. *In the ovary*, in *Chelidonium*!

— I am lecturing in a popular and general way entirely on Physiological Botany; and offering no encouragement to any to pursue Systematic Botany this year. My great point is—to make physiological botany appear, as it should be—the principal branch in general education. Next year I hope to take up the other branch. I am using the Lowell Illustrations;—(tho' too large for my room) and am having no additional ones made for the College. For simple things I depend much upon the black-board. I have given two lectures on the Longevity of trees, and have a third yet to give, or at least half of one other. — It is not easy to tell you what the subjects of the Lowell Illustrations are: They are quite diverse —

---

* Dr. Wyman has just come in, and verifies my opinion. He says the instrument costs only ~~100 fra~~ 100 francs: and that Chevalier has no substantial instrument for 500 francs. The 100 francs microscope you might be more confident of selling when you wish.

Of course I have no idea of printing my discourse
before the Boston nat. hist. soc. and shall decline
their proposal.
The plants from the Mountains have some done
well: others poorly. Buckley's has had a hard
time of it. many are dead; none I think will
flower this season; as they only put out from the
root. Diphylleia, Saxifraga Careyana, a new one
like it, also S. erosa, etc. — are now in flower. Astilbe
is in bud. also Vaccinium ursinum, One Carex Fraseri flowered. Hamiltonia
only starts from the root,
The big microscope has not come. It is coming
by a sailing-packet, which however has been due
this fortnight.
The Jamesia Californica was a mistake of Hook.
Jour. Botany. The plant figured is Janusia Califor=
nica (Malpighiaceae) wh. Hooker in his enumeration
misprinted Jamesia! I have ordered & received
the first part of the Botany of the Sulphur; of which
I will speak when I have the pleasure of seeing you.
Then we will also speak of Kunth. His adoption
of Bafraea goes for nothing. I have a line from
Bentham, with a packet of seeds from Hort. Soc.
He is getting on with Scrophularineae and hopes to
send yours back in August. Harvey, formerly
of the Cape, is now Curator of the Dublin Museum
and is about to publish Coulter's coll. of California
plants.
Pedicularis Canadensis begins in Linn. mant.
p. 86. (Am. Sept. Kalm.)
Mimulus ringens, herb. Linn.! is the true plant.
The char. in Sp. Pl. is decisive, also It starts
an elaborate & faithful description.
in Hort. Ups. where there is officinalis ~~Virginica~~ Hb. Michx.
"Folia ... amplexicaulia" I had marked Gratiola, I do not know the species
I find I had marked perhaps wrongly, as I do not I suppose it can
as G. Virginica: perhaps wrongly, His descr. will decide. G. officinalis (if not the
of the genus well. His descr. so near G. officinalis that with Bentham,
not be that species of Le Conte having previously examined that If you have
same): for I remember has the means of certainty.
in London. Bentham has Michaux's spec. of Gerardia, but
any doubt, leave out ~~Michaux~~ notices both species of which there is a species
Gronovius ~~[illegible]~~ the only one of which this the species must
his principal one, and G. flava. and on this (Kalm) is G. glauca!
rest indeed: for the specimen in herb. Linn. in his synopsis of
you will find that Bentham has noticed this in Gerardia in Compan. bot. mag.

I am not prepared to answer your question about Veronica Virginica. Bentham will answer it soon. I know nothing of Phryma, or Verbenaceae. The parcel which Mrs. T. brought from you still lies in Boston, unopened; I shall have it tomorrow. Some copy of the Species plantarum will be indispensable to you. I can lend you my 2d Ed. as they have that in the College Library. Shall I bring it on in July?

Castilleja coccinea. Spreng. syst. 2. p. 775.

The 8th vol. of DC. Prodr. has reached the College Library here, but I have not yet found time to look at it. I shall hope to notice it briefly in next Silliman. I have a busy month before me: but in July I shall breathe freer, and shall hope to see you.

Love to all. Yours faithfully

A. Gray

12

Prof. J. Torrey
Princeton
New Jersey

Single sheet

I have received the 2d part of Adr. Jussieu's Cours Elementaire de Botanique: a grand work! Some other things also, but none of any great moment.

A.G.

Rec'd Aug. 12

Cambridge. Aug. 8th 1842. 28.

GRAY CORRESPONDENCE HERBARIUM

My Dear Friend

I got safely back (home I hardly feel like calling it just now) yesterday morning. and I commence a scrappy letter to you, on this large sheet - to which I shall add as points occur. The first point is an unpleasant one. Gibbes of Charleston wrote me last winter, and mentioned incidentally that he had not heard from you for a long time, and did not know what to make of it. I wrote him a line by Greene, and told him you were very busy, but would surely reply to all his letters as soon as possible. On my return here I find his letter of 9th July - apprising me that he is on his way north. - in which he says. -

"I believe I told you that Dr. Torrey ceased to write to me after I gave up the agency of the Flora to Mr. Hart, and asked you the reason. On the 22d Feby, more than four months since, I wrote to him, asking him if I had given him offence in any way, but have not yet received an answer." His further remarks show that he feels much hurt; and he is and has long been in ill health, which probably makes him unduly sensitive. I have now written him at NewYork (as he requested) strongly assuring him that I do not believe you are in any way offended with him, - that either you never received the letter he speaks of asking an explanation, or if so, must labor under the impression that it was at once responded to, and have told him that your next communication will no doubt remove all such false impressions from his mind. Pray write to him - at the NewYork Post office. and also speak of it in your next letter to me - ~~there~~ as he may be here some time this month.

GRAY CORRESPONDENCE HERBARIUM HARVARD UNIVERSITY

Aug. 9. - I have a brief letter from Hooker - but no particular news. No other letters from abroad. Prof Hope of Edinburgh is dead.

I have been spending the morning at the Garden. All has gone backward since I left - nice plants lost. and I am much discouraged. I have nearly made up my mind not to lose much more of time and anxiety and expense until we can get rid of Mr. Carter, who is to old to change his plans, and get a young man from Kew or Horticult. Soc'y. who is up to the day and is tractable in his place.

A line from Mr. Lowell informs me that he has assigned me again the end of the ensuing course, viz. to commence about the close of February. This relieves me from all immediate anxiety about the preparation. But the intervening time — likely to be much broken up by the bother of removal and initial household arrangements, — will not allow me to accomplish much. I am yet in doubt whether I will work at Flora till the last moment, or prepare a new edition of the Bot. Text Book. I must hear from Mr. Wiley (who was not in New York when I passed) before I can decide. Meanwhile I am preparing to despatch some parcels and bringing up correspondence.

By the way, I am sorry to learn that I cannot get into the _house_ until after Commencement. — probably not yet for a full month!

I have laid out for you my 2nd (3rd) Ed. of Linn. Spec. Pl. (some notes on next page) and the Gentianeae of Grisebach — which I will send to W. & Putnam's to-morrow or Monday. I only wait to write some letters that must go to N.Y. under the same cover for Havre packet. I shall soon have some packages ready for Boissier, Shuttleworth, &c. — B. D. Greene has sailed for London — and is there by this time. He intends to return in October. Let me know the result of the Catskill Mt. journey, and how Maggy enjoyed it. I shall write to Mrs. T. (from whom I am anxious to hear) either tomorrow or Monday. Can't you arrange some way of getting things regularly from New York — without expense. In that case we could employ the cheap private mail, and also send packages often.

I forgot to tell Mrs. T. the day I left that the Geranium-cutting from _Mrs. Stirlings_ bouquet — which was placed in a pot in the plant-case in your study — had already begun to shoot (a bud at the ground). Please have it looked after and duly watered, as I am pledged it should grow.

With love to all
I remain Yours very
faithfully
A. Gray

Amaranthus. In Linn. Spec. Ed. 2d. which I send you, I have annotated with Ed. 1. –

Polemonium reptans. Begins with Ed. 2. Rests on pl. Gronov. which I have seen (!) & in herb. Linn.!

Physalis viscosa – the earliest syn. is Linn. Hort. Cliff. which is from Buenos Ayres – as is Dillenius's plant, which is the only syn. he quotes. But in Ed. 1. Linn. puts Virginia foremost. – & the plant in his herb. is I suppose, ours. It is doubtless the plant of the 2d Ed. where he gives a new character. I would keep the name for the North American species, unless some later author has applied it to the South American – for P. Pennsylvanica – the only other N. American sp. in the Sp. Pl. of the Perennial division – begins in the appendix to Ed. 2. (p. 1670) where it is fully described. It is in Herb. Clayton!

P. pubescens is I suppose the name for the annual species.

Fraxinus juglandifolia. I find no trace of any such Linnaean species. What is your authority for making it Linnaean. — Do you wish me to copy what Lam. says of it? (Steudel has a F. juglandifolia, Lam.)

Lindl. Sp. Orchid. I have it not, & Greene has gone abroad. I dare not send it to you, but I will consult it, if I can find it in his library, and answer any queries you propose.

Stachys tenuifolia. Willd. Sp. 3. p. 100 (1800) I have no notes on it. Willd. only says. "S. verticillis 6-floris, foliis lanceolatis simpliciter serratis glaberrimis, W." Hab. in Pennsylvania ♃. (v. s.) Similis S. palustri. Folia tenuissima quoad substantiam, iis Veronica maritima simillimis ut ovum ovo. W."

By collating Muhl. fl. Lancast. I find it comes from him. He says. Caule angulato ... infra retrorsum hispido, supra glabro. – & so on – nothing more is characteristic. vertic. 3–6-floris. Hab. ad aquas, flor. Julio–Oct. Differt a S. hyssopifolio, Michx." (p. 428)

These are all the queries on your mem., except the etymological ones.

I find there is no authority in Herb. Linn. for Chironia campanulata (Kalm) having come from Canada. I compared the specimen with one in your herb. marked "Sabbatia bracteata, Ell. Middle Florida Dr. Alexander!!" with which it well agrees.

12

Dr. John Torrey
Princeton
New Jersey.

single sheet }

Cambridge. Friday evening

TORREY
HERBARIUM 164

My Dear Friend

Your kind favor of the 12th filled me with much anxiety, which your most welcome letter of the 13th greatly allayed. I am, indeed deeply grateful for your kindness in keeping me advised respecting Mrs. T.'s severe sickness, and beg you will continue to do so until her health is quite reestablished, which, from your last advices I trust we may hope will soon be the case. I felt confident, even when I left, that the illness would yield at once to proper remedies, or you may be sure I should have remained until your return; I had no idea there was more than transient indisposition before you left; and I was quite unprepared for the serious accounts from Princeton. The intermittent must have been contracted at Columbus, where I remember there was a deep fog at night, and she probably slept with the windows all open. I should not have expected any danger from that source ~~it~~ in July. But with the Divine blessing it will soon yield, I trust, as she is probably in a state to bear quinine and other tonics quite well. How short sighted our plans prove, in the event! I anticipated the most favorable effects upon her general health from the journey;— the eastern journey appeared to do so much good, although undertaken too early in the season. The weather has been delightful here for the last week,— a little warm at mid-day; but every afternoon there comes a cool - almost cold breeze from the sea, which feels as if it came express from the coast of Greenland: and the nights are delicious for sleeping.

The President, Mrs. Quincy, and my old friend Miss ~~Susan~~ have just returned from Niagara, where they arrived at the close of the week on which we left. They make the third party from that family that have visited Niagara this season. Week after next is our Commencement week, and then we have busy times

I have received my reply from Mr. Wiley. A new Ed. of Bot. Text Book will be required in the spring. It should therefore be ready in February — to meet the demands for my lectures. I shall more fully illustrate the structural part by figures. Many thanks for the sketches you offer, which will be acceptable. Can you give me a drawing of a Fraxinus? Please suggest appropriate subjects for illustrating families &c — And I should like you to look over your copy, and favor me with any memoranda respecting errors, obscure expressions, or points requiring fuller explanation.

I doubt not you found Maggy a fine travelling companion. Mind you must bring her upon a visit to me before November; in September if you get through your Princeton botanical lectures. How long have you to lecture now? I feel rather lonely here. A visit from you would enliven me much; and I think it would do you good to spend a week here, see some of your Boston friends &c. Greene is expected home by 1st October. I dare not propose any more travelling for Mother this season; but only say that when she next wishes to see the Farmington boys, they can meet her half-way, at Cambridge. I hope the next letter will bring me happy intelligence and prospects of speedy and complete recovery. In Eliza she has indeed an excellent nurse. Adieu Love to all.

Yours affectionately

A Gray.

HEY COLLEGE
HERBA

No 164 – Aug. 1844

I find in Amoenit. Acad. a paper on Kamtschatka plants by Jonas P. Halenius, — so his name is given (Latin). I reckon the genus Halenia is dedicated to him; but I cannot get hold of Borkhausen.

Obione. Gaertner does not give the derivation. We cannot make it from any Greek word. As the original species is Siberian, Dr. Harris & myself opine that it is from the name of the Siberian river Obi!

Now as to Gaultheria, alias Gautiera. Sprengel (Gen.) takes the latter form, and refers to Mem. étrang. acad. Par. 1721, p. 378, to show that the man wrote his own name Gautier (of which there is no doubt.) Endlicher has taken it for granted that Kalm there established the genus Gautiera and all that: and so has made his reference without looking at the book. ~~Now~~ (he has put a wrong date to it also) Now Kalm has published nothing in Acad. Paris. The paper referred to by Sprengel is one of Gautier's on the Sugar Maple. The genus first appears in Linn. Gen. & Amoen. acad. vol. 3. & was established as Gaultheria, in which form it has generally come down. Now what is to be done?

Your Catskill Solidago speaks plainly for itself. It is S. thyrsoidea! The thin acute involucral scales, glabrous achenia, large heads, and leaves with winged petioles distinguish it well. It grows on mountains of small elevation in Maine, abounds at the base of ~~the~~ Mount Washington &c. — on the Green Mts. Vermont, (and no doubt in Northern New York Mountains) with S. humilis, Pursh. The summit of Round-top appears to correspond just with the base of the White Mountains. Did you get any Moss?

The blue-berried Gaylussacia is queer! I should like some specimens. Is not the White Huckleberry in New Jersey an albino of V. resinosum, like Buckley's? Let Knieskern ~~find~~ out. It is singular that the day

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

before your letter arrived, Dr. Harris was giving me some information respecting some White Huckleberries that have been found in this State. An old woman has a locality, which she monopolises and keeps secret. Lately some others have been noticed in the agricultural papers. I am on the track after them, and shall soon I hope find them out. I suspect V. resinosum. There is a white var. of V. Myrtillus in Germany.

— My parcel for you, advised in my last, was forwarded to W. & P. New York on Monday last. Hereafter I will send, as you suggest to Endicott's care.

18

Dr. John Torrey
Princeton
New Jersey

The papers mention Lieut. Fremont's arrival at St. Louis!

To Dr. Torrey 132 Tuesday Evening Oct. 1844

TORREY CORRESPONDENCE HERBARIUM COLUMBIA

Thanks, Dear Doctor for your letter of Saturday, which apprised me of Henry's safe arrival. I felt quite at ease when he left, having made arrangements with Adams' express man to take him in special charge, and if not called for on the arrival of the boat, to send him up to 212, Fourth St. The last I saw of him he was mounted on the waggon with the Express-man, in high glee! I think with you that Mr. Gorham Abbott behaved shabbily.

I am about half-fixed at the Garden, and shall probably sleep there to-morrow night. Were it not that my woman-kind has disappointed me, we should dine there to-morrow.

I duly received the parcel by Express. It did not contain the drawings from Endicott's. I would send the plants you propose to Bentham. I wish especially you would send me the Compositae. The unfinished appendix still offers a loop-hole. I want to see if this set contains Lessingia. A specimen of that genus (which I have long wished to see), I have just received in a very choice package from Ruprecht of the Russian Imperial Academy, which confirms a suspicion I entertained at the time the last part of Flora was written, tho' I believe I did not hint at it. I will now take the first good opportunity to make a correction that Hook. & Arn. ought to have seen and made.

Dr. Wyman, wishes much to accompany Fremont if he goes on another journey — entirely at his own expenses, if need be. As his object is entirely zoology, he will not interfere with Fremonts botanical plans, while the results would redound to Fremonts advantage. He is a most amiable, quiet, and truly gentlemanly fellow, retiring to a fault, but full of nerve, and surely is to be the great man of this country in the highest branches of Zoology and comparative anatomy. I therefore very strenuously solicit your influence at court in his behalf.

I am glad that Fremont takes so much personal interest in his botanical collections. He will do all the more. I should like to see his plants, especially the Compositae & Rosaceae. As to Coniferae he should have the Taxodium sempervirens, so imperfectly known, and so probably a new genus. Look quick at it, for it is probably in Coulter's coll. which Harvey is working at.

You have got your Jussieu & Maout, I suppose they arrived in New York while I was there. I have written to old Kees to try to get a complete set of the Nova Acta Nat. Curiosorum for the American Academy. We shall publish a half-volume in a month or two. If you have any paper for us, we will print it at once. With love to all, I remain

Cordially Yours

A. Gray

Aug 9

To Dr. John Torrey
Princeton

Oct. 1844 or '45

[illegible]

TORREY 180
HERBARIUM

Dear Doctor

Our last letters crossed, and I believe I have already replied to some points in yours of 2d Oct. — On many others, unfortunately, I have no available information to give. I know nothing definitely of Poplars. My Herbaria-notes are now packed up until my study shall be put in order, but I fear they contain nothing that will essentially aid you. I have somewhere a note about Populus Græca given me by Webb, who somehow ascertained that it was of American origin, — but I suppose that would not much concern you. I certainly wish that the Clintonia of Raf. could be avoided. But I know not what should be done with the old genus Convallaria. Nothing more to say about Orchid. or (N.Y.) Melanthaceæ.

Greene has been at Norwich, (Conn.) since your letter was received, but has probably returned by this time. When I see him (which is not like to be until Saturday) I will ask for his Lindl. Orchid. Gen. & which I have no doubt he will willingly lend you. It is a meagre book. You can judge as well as me as to what of Fremont's plants should be sent to Benth., certainly Scrophulariaceæ. I have already told you that I should like to see the Compositæ. Thus

Miss Marg
Care of
21

Dr. T.

far, my time has been broken into fragments.—so that I have done little to forward the new ed. of Bot. Text book.—And the course of lectures for Feb.? still looks very formidable and chaotic. I want those drawings and sketches. I must have a few blocks—chiefly veget. anat. all ready for the wood engraver sometime next month, when I shall very likely have to visit New York to see Butler going. I hope the Med. Coll. will fully meet your expectations this season. Will your new microscope be out soon?

I remain, Yours affectionately

A. Gray

[illegible] 1842-1843

See letter [illegible] 31-33.

Botanic Garden, Tuesday Evening 3rd Dec.

122. TORREY H.
HERBARIUM

1844–18[illegible]? (1844)
Dec

My Dear Friend

I must reply hastily, before I retire to your favor (sent by your brother) of the 28th ult. I found a note from your brother in the P.O. Monday Morning – he had sailed – and I sent to town for the parcel. Glad to see Fremont's list. I have been looking at odds and ends of time at his Compositae; and should he really want it – there remain now few that would much trouble me in making out a list for him. But I should not like to bestow much time on those few. Supposing that he would do nothing with them till he went again, I had partly carried out a notion I spoke to you of, viz. to characterize what new genera ~~these~~ might be in Bost. Nat. Hist. Society to secure them, and eke out a little paper on Corethrogyne & Lessingia. I have written out ~~the~~ characters of 4 new genera – 3 of them remarkably distinct ones, and curious – and of two I have superb drawings and good dissections made by Sprague. I thought of reading (by title a little paper to-morrow evening – when I am obliged to be in town. I write in the first person, but cite the genera Torr. & Gray Fl. ined. If Fremont wishes us to use them for the Flora, I suppose he will not object to this course. But if you think so, tell me at once. That Southern Oregon – California – Rocky-Mountain – region must yet yield many new forms of Compositae. Fremont must have lost his best collections.

I had taken great credit to myself for having already despatched – by last steamer – those for Bentham. So it is too late to add the localities.

I am very sorry for the miscarriage of my first letter. It was sent thro' Hale's Post Office.

I have not time to enter into particulars respecting Draper's book. I have served up the chemico-physiological part of it, and made some fun of his bombast. All the new ideas — and they are very few — are false, fanciful, or absurd. — I have compared it — the introductory chapter in particular — to an omelette soufflee, of which Dumas may have furnished the egg — Humboldt & Lyell the condiments, and Dr. Draper the intumescence! Don't repeat it. Though I do not know whether the editor will allow this and a few other hits to pass. A long piece of twaddle in the chapter on ~~the~~ nervous system in plants — has enabled me to adduce an apt quotation from Bottom. I am hungry for letters though I am able to write little myself. Tell Mrs. T. that as yet I have from her only a couple of postscripts to letters of yours. I expect you here with a pair of the girls, the evening before Christmas.

Affectionately Yours

A. Gray

Wednesday Morning. No news — no letter by the Post office — but there was a bad night I suppose on the Sound.

In great haste

Yours

A. G.

Pd

Prof. J. Torrey
67 Crosby St.
New York

TORREY HERBARIUM

1844

Dear Doctor T.

I will bring you the Illustrations early next month. — You forget that Engelmannia was first published in Nuttall's memoir on Compositæ, and overlooked by Endlicher, when in a former supplement he posted up those genera. It has just the age of Tuckermannia, Nutt., ~~by~~ which Tuckerman gave precedence to Tuckermannia Kl. & Endl. adopted. I have just got the 2nd part of Ad. Jussieu's Introduction to Botany. It is admirable. — full of good wood cuts — and costs very little. I have just received another beautiful French Introduction, that of Maout, on a somewhat peculiar but good plan. The cuts, I learn are from drawings made by Decaisne.

In haste Yours ever

A. Gray

18

Mrs. Dr. J. Torrey
Princeton
New Jersey

TORREY 178
HERBARIUM.

1849 or 50

Dr. Torrey

As to your question, Has any one noticed the abnormal flowers of Ruellia? This is the earliest-noticed case on, seems the paragraph I copied from *Linn. Hort. Ups.* ando. "*uti idem in Ruellia* videre est." And in the same work, under Ruellia, p. 179, he notices them particularly. Dillenius noticed it before him, in Hort. Elth.

The University has recently got another legacy — of $15000 from Mr. Munson. He left *Yale* College $20,000. Mr. Amos Lawrence has just given President Hopkins $5000 for Williams College.

Yours ever A.G.

I have a painting of the most splendid Water Lily you ever did see, — 3 or 4 feet in diameter, lying upon the green leaf which sets off the white finely. It is large enough to show the transition of ~~petals~~, sepals, petals, & stamens ~~fully~~ across the whole house. I have for you, a parcel from Tuckerman; which I will send in next parcel.

10

r. J. Torrey
Macdougal St.
New York

TORREY 68.
HERBARIUM

1845?

Dr. Torrey

Please send me – in first parcel by express – as soon as you well can – that largest of my Cambridge botanical Illustrations, containing bulbs and corms, &c. – on a very long piece of cloth. This I think of using in Lowell Lectures. – You can retain the rest, I think, until the 1st of March. — (I have mentioned this in a letter sent a day or two since)

Decr 26, Mr. Greene has ascertained for me that Pluchea is named in commemoration of Noel Pluche, author of "Spectacle de la Nature", etc" and other works.

Having occasion to smuggle a letter to Wiley & Putnam into a parcel to New York – I enclose this mem. to you. Having so lately written to you, I can think of nothing else to say, at present.

I have not received as yet the expected parcel or letter from Mrs. Torrey, and am growing impatient!

I beg to offer the compliments of the season, – an ex post facto merry Christmas.

Yours cordially

A. Gray

Prof. J. Torrey
Medical College
67 Crosby St.

14
12
26
25
51

IIII IIII II

Carey's –
~~Engleman &c~~
~~Paper in Sill. Journ.~~
Prof. Henry –
Dunbar
~~Prospectus~~

~~Marietta – Dew~~
~~Dr. – Herkimer~~ –
N. Year –
~~Edward Grant~~ – Henry.
Gov. Bouck's Message
Lyceum –
~~Newly~~
~~Burnett's pamphlets~~
[illegible]

Ans

1847?

173

Monday

Jan 12 —

My dear friend

Thanks for the numbers from Fremont's list; which came to hand just as the proofs were lying before me,

Have you not made a mistake about no. 414 (1843) "Encampment on the Arkansaw" &c. — and copied from the 1844 list? The plant is not a shrub. but a low herb. (Pyrrocoma).
* Did Fremont go up the Arkansaw on his way out?

Save me specimens, when they will bear it from Fremont's plants. Of the first collection (except Compositae) I only shared after Carey!

There is a delay about sending me on wood-cuts from New York, which is very vexatious. — has suspended the printing here — and is going to trouble me just when I wish least to be troubled with anything extraneous.

As to the Smithsonian affair. it may be well to keep it in view — but if you can reasonably count upon $2500 per annum in your present situations (but is not that too sanguine an estimate?) you would scarcely improve your circumstances by any thing likely to turn up at Washington.

Mr. Adams sends kind regards. —

I remain, faithfully Yours

A. Gray

* [~~Yo~~ The reference in my letter is correct. Fremont does not call the plant "a shrub" - but says it forms "bushes" - which may mean an herbaceous plant with a bushy look - (like Lespedezas). He went up the Arkansas on his way out.

18¾

Professor John Torrey
No. 67 Crosby St.
New York

JAN

Ansd

Tuesday Evening. 28th Jan.

1845

My dear Friend

After looking over the 1st article in the accompanying London Journal of Botany, will you carefully mail it to Mr. Sullivant.

I have to-day written to Hooker, directing his attention to your full account of the plant, — enquiring whether Fremontia has not the priority, and requesting Hooker, at any rate to reprint your account of the plant, as it completes its history. I do not see that Lindley adds anything new to what they knew abroad, for Schlechtendal in Bot. Zeit. says it is Hookers Batis vermicularis.

Perhaps you have not seen Draper's attempt. He seems inclined to play _brag_. and entirely to slip out of sight the whole subjects upon which I took him up. That he has read the Review carefully is evident from his pitching upon a sentence which, prepared only for a popular lecture, I forgot to _qualify_ in the Review. If you look at p. 82 of Text Book

You will see that the proper qualifications are made. I should have omitted resins – as they are a subsequent formation, an oxidation of the oils my paragraph contemplates.

If that is all Dr. D. has to say, I am quite content, if he is.

My article was undoubtedly saucy, and he is welcome to complain. Send the paper back to me. It is as well to keep it.

I am glad you find the microscope all to your mind.

A package of plants has just come in from Fielding of Bolton Lodge, Lancaster. I have no time to open it.

My Study is a regular paint-shop. I work up-stairs mostly. The printer takes my time so that I can get only a portion for lectures. Sprague is making beautiful Drawings for me. – or rather paintings – but he works too slow as yet. He is now busy with Mosses & Hepaticæ. Journal?

" Text Book?

Bailey's paper is a nice one. I have barely glanced at it; but he has before explained to me the principal results.

There must be some mistake in the numbering of the No 414, Fremont. It is a very low plant, — a new Pyrrocoma — which it is new to find on this side the Rocky Mts. — tho' not surprising. I let the locality slip by without mentioning it, in my little paper — of which I will send a copy in a few days.

Excuse this way of writing.

Good-night.

Yours ever
A. Gray

Dr. Torrey

Draper controversy!

1845

My Dear Friend

Your favor mailed the 10th has just reached me. It first startled, and then amused me. You first spoke of charges affecting my credit and good name, ~~greatly affecting my~~ and which much excited Dr. Gilman & yourself - as such things ought. But when we come to particulars, I find that it is only a charge of ignorance. - Now that ought not to make such trouble. One may be reasonably honest, and yet an ignoramus. Then as to the matter of which you speak, you are excited, and do not give good advice - you have not consideration enough for Dr Draper. He plainly shows that he has been hit hard, and that there is no getting away from the unenviable position in which he stands. Of course to abuse, or to decry motives, or to charge ignorance is his sole resource. I have not seen the article in the Express, but I conclude it is much like the other. You see he avoids every point upon which I touched him.

As to the ignorance, I know that what Physiology there is is good. As to the Chemistry, it is step by step Dumas. & Draper knows that. His charge of ignorance just lies there against the eminent French Chemist.

The statement on p. 21, was just as it stood in a general form in my lecture. and my eye did not rest upon it in preparing it for the press, to make the necessary qualification. Particularly as it does not affect the argument. By the oils of course is meant the fatty oils &c., which are Carbon & hydrogen only – the resins, as my idea runs being a subsequent oxidation of oils. But you will find the statement properly qualified in my Text Book, 2 years ago. – a fair answer to the charge of being ignorant of so simple a matter.

In regard to the whole current of Draper's reply – 1st nothing need be said, as he does not touch any of the points in question. –

2d. Suppose all the articles have been published in English Journals; and abstracts in the European – what then? They have not endorsed them, and if they have, that does not make them true and sound. (Passim; the Annales de Chimie is not the organ of Academy of France &c.) Becquerel noticed one of his papers, it is true at the Institute. But Draper forgets to tell us that he blew it up! – If Brewster gave him credit for his Daguerreotype portraits, you well know how much of the original credit belongs to him. 3d. ~~I~~ Suppose the Physics are all good – I expressly disclaimed any thing to do with them (p. 39.) The papers that he would have us believe are so important, and have been received with such eclat, have nothing directly to do with the main staple of the book. The matters, that I have found fault with, so far from having been so praised abroad, are now (in his book) published for the first time! So all that goes for nothing.

To show what a fine get off the Italics at the close of his first paragraph are, compare with the matter spoken of ~~on~~ on p. 41 of my article. A beautiful touch!

Let him show that a single point is falsely or inconclusively put, and then it will be time to reply to him. — and the reply will be easy. This he does not do — the inference is plain that he cannot. Surely he has every wish and inducement to do it. —

In writing a provoking article, as mine really was, one does not know where he may be vulnerable. I am glad to find Dr. J. has found no place to insert his lance. As to the cloud of dust, and the whole ad captandum vulgus, let him have full swing. It will not annoy me. If any competent persons ~~does~~ do not see the true state of the case, they must be asses, and it would be throwing away powder to attempt to enlighten them.

As to "taking the conceit" out of a man, that is not always easily done. A man who can introduce such rigmarole into a scientific treatise is nearly past cure. Besides, is it not enough to "write a man down an ass," without obliging him formally to "own the soft impeachment"? You really are too hard upon the Doctor.

As to "wickedly attacking" him, of course I deny the charge.

As to your having aided the concoction, that is easily disposed of. The main staple of the article was written long ago. With none had you any thing to do. Pray do not notice any charge in print, that is not made in print! If you, or Dr. Gilman choose to show, in conversation, how he plays brag merely, and avoids every point, and mistates, very well. When he calls any one in question, I take to be ready. But pray keep cool!

My first lecture is to-day finished, and has this evening been read to Mr. Albro. Half of it is devoted to a serving up of Vestiges of Creation (which Boott says is written by Sir Richard Vivian) - showing that the objectionable conclusions rest upon gratuitous and unwarranted inferences from established or probable facts. Peirce is examining Mulder - that we may fairly get at his point of view. His conclusions as to equivocal generation are non constat from his own premises. - On the whole series of subjects Peirce (who is much pleased with the way I have put the case in my introductory) and myself think of concocting a joint article. - Tho' my time will prevent me from working out some of the subsidiary points just now.

Dr. John Torrey
Medical College
67 Crosby St.
New York

I assure you I am quite well and hearty - just in capital working mood. As to the lectures, I must work hard all the way through. - but do not feel any misgivings. My house is hot enough, I assure you, no trouble on that score. If the Members of Lyceum are such fools pray let it go, and don't trouble yourself about a dead horse.

As to spontaneous generation, the experiment of Schultze is nearly or quite a test, and goes against it. Ever Yours. A. Gray

Love to all.

? Dr. Draper:
Controversy:

Feby. [illegible] 12d.

Friday Morning.

TORREY [illegible] CORRESPONDENCE
[illegible]
COLUMBIA UNIVERSITY.

My Dear Doctor

I have just despatched a letter to Mrs. T. which is half intended for you. But I have just received the Herald — sent by Dr. Draper —. The whole is growing rich and funny. Now it has just occurred to me what to do — what will form at once the best answer to his misrepresentations, and spite him cruelly. It is this. Let Dr. Gilman — if he will just simply have all those portions of the Review that relate to Dr Draper reprinted in one of the news-papers. from p. 36 (in the separate copies) to the end, and if ~~possible~~ proper the passage on p. 5 also. — This will embrace very specific mention of him and his book — and the extracts from it will fully justify the hits that are made at the style &c. —

If any remarks are deemed necessary, it may be added that if Dr. Draper chooses to make an issue on any of the ~~points~~ points raised, no doubt the author will be able to defend his positions. — It may be said that the whole Chemistry from the passage on p. 5 onward is just that of Dumas, I have been interrupted, and have missed the mail here. I shall send this into Boston to be mailed.

Yours in great haste

A. Gray

P

Dr. John Torrey
67 Crosby St
New York

Medd Coll.
alteration
Henry - Draper
Philadelphia
Fremont. Kincaid.

TORREY CORRESPONDENCE HERBARIUM

TORREY 33. HERBARIUM

Mar. 8

184

Saturday Morning — Cambridge

My Dear Friend

I reply hastily to your kind favor of the 1st inst: for I am very hard at work, as you well know. I am doing very well: except that I have had a hard cold all this week, and have consequently made myself very hoarse in speaking. But after this afternoon I shall not have to speak again until Tuesday evening, by which time I hope to throw it off. No reports in the papers: There have been none this year, and I have taken special pains to send no tickets to the newspaper offices.

I finish Lichens this afternoon; and have next two lectures on Fungi & Spontaneous generation to give. I interweave a good of matter such, on Ferns - the part they played in the early times of world - a la Brogniart. - Mosses - filling up lakes & ponds - Sphagnum. Peat. Lichens — first agents in clothing rocks with soil. I have noble illustrations of Rust in Wheat, Ergot &c — and Sprague is now hard at work on Smut — a la Bauer.

Bowen speaks in high terms of Whitney. He is probably your man if you can get him. I have written to Dr. Jackson about him.

You remember the letter I sent you from Meslele of "Ebenezer, near Buffalo", and which you still hold. — Well, he has sent me for inspection, a most superb set of drawings — both of cultivated & some native plants, — exceedingly well done — Also specimens of his work in cutting on stone! which he does admirably. — He did ~~the~~ work in Bischoff's Terminologie, which perhaps you remember — ~~2~~ 4to vol. — What a pity he did not have the State-Flora plates to execute!

If Dr Beck and yourself go on with your plans, he is your man to engrave the plates on stone. Our Illicium is now in full flower; but I cannot spare Sprague a moment to draw it yet; — unless indeed it is quite certain you will want it, this year, — when I would try. He must work hard for me two weeks longer.

I thought I saw Fremont's drift — some time ago. He defeated Wyman's application — (tho. he takes branches that Fremont can do nothing in) ~~for fear~~ that he might have all the scientific glory! He ought to be above it, and to aim higher; but indeed it is hardly to be expected.

My cutting up of Vestiges of Creation was a fine blow, and told. Peirce, who you know was rather inclined to favor Rogers awhile ago, is now sound and strong. We think of sending a critical analysis of the first part of Mulder — as our joint work (if he finds time to put in form the physiological deductions I give: him) to the meeting of Geologists & naturalists at New Haven next month. — — where Rogers of course will be.

Mulder is very ingenious; but we can blow up the whole line of his arguments — and show that it all amounts to nothing: that he has not in this advanced our knowledge a particle; and that his generalizations are unsound. Why did you not have a part of my article reprinted in N. Y.? That would be the best reply to all his stuff.

The printing of my book will be through next week. —

In haste

Yours very faithfully

A. Gray

Prof. J. Torrey
67 Crosby St
New York

March 20th

TORREY 32
HERBARIUM.

Botanic Garden, Wednesday Evening.
1845

My Dear Friend

Your favor of the 10th & 14th reached me duly. When I wrote last to Mrs T. – on Saturday I was suffering under a transient illness – a pretty severe one, which kept me within doors until Monday. You will be glad to hear that I am quite set up again, and that I resumed my lectures last evening. repeating also this afternoon. All going very well. I am now half through, and have got almost done with Fungi. The audience take so much to the "Cryptogamic matters" – especially the afternoon audience which is as a whole the most intelligent and refined – that I let them run on, and they will occupy the whole course, except three lectures. I gave one lecture – generally thought nearly the best – on the large Fungi – Mushrooms, Truffles, Morells, – Puff-balls with some good general matters. To-day I have taken the small ones – Moulds, Mildews, Rust & Smut in wheat, with superb illustrations. – Ergot is still left over, along with the disease in Potatoes, the plant of fermentation. the Botrytis that kills silk-worms – with some recapitulatory matters on Spontaneous generation must be cooked up for Friday. Then comes Algae; the large proper ones (Lect. 8.) of which a fine series of illustrations is now nearly done. – Lect. 9. –

Then the low, minute forms — & Confervas come in: R Gory Dew — Red Snow — superbly illustrated, — ending with Diatomaceæ — — transitions to Corallines through Sponge &c — — & the locomotive spores of Conferva Zoospores.

Lect 10. — Whole subject of spontaneous movements, & sensibility in Flowering Plants. — the life of Plants, &c — (treated in a somewhat original way) — and the real differences between plants & animals. —

Lect. 11. The principles of Classification Individuals, Species. their permanence — Genera — Orders. &c —

Lect. 12, Historical development — the Linnæan system. — the Natural — This ends so as to give me a fine place to begin at next year. —

I sent on Monday to Wiley & Putnam — a parcel (sealed) for you, containing my first lecture, as you desired. Some of it is mere heads to refer me to the diagrams. — Please take care of it, and send it safely back to me. (I have marked it "to be called or sent for.") The "Vestiges" is full as possible of absurd and wrong statements of facts — which the author did not clearly understand. Bowen has a long winded article on it for the next North American. This will keep me from touching it there —

~~I suspt~~ I suspect Mulder will be an interesting work when he gets out of his metaphysics.

I will send you the drawings of Prestele — and specimens of his stone-cutting (what are capital) when I get time. I have written to him to know at what price he can make ~~cuttings~~ the stone-engravings. Would not Endicott like to have such a man?

You say you expect a visit from me, as soon as I get through the Lowell Lectures. But that is absolutely impossible. I must commence with my College Classes at once, as I have little time enough to accomplish my plans by July. And even then I can not leave here for any time. So you must come here, with Herbert and his Mother, and as many more as you choose.

Have you not heard from Dr. Jackson about Whitney? I desired him to write you.

Tell Mrs. T. I will reply to her last epistle very soon. This will inform her that I am well again; but I am greatly pressed this week, and cannot write again until the end of it.

You will be greatly shocked to hear that Wright Booth has died — by his own hand!

I shall soon be able to spare Sprague to go draw the Illicium, if it still holds on; But I cannot spare him just yet. He has still to copy the Red-Snow Bank from Ross, 18 feet long! — finish two pieces of Algae, &c &c — —

In haste ever truly Yours. A. Gray

Torrey Correspondence Herbarium Columbia University

Torrey Correspondence Herbarium Columbia University

MAR

Prof. John Torrey
Princeton
New Jersey

12

The Steamer is in. No scientific news.

1848

Cambridge — Saturday Evening —

TORREY HENDERSON 66.

— My Dear Friend,

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

The 11th Lecture is off. The last must be entirely prepared on Monday & Tuesday; and I have besides to begin with my freshmen on Monday.

A pleasant letter from DeCandolle arrived to-day — just as I was despatching some seeds to him, and a copy of Bot. Text Book. (Prodr. Vol. IX is on the way hither) I shall send you — probably on Monday — to W. & P. the volume of Delessert, and a copy of Bot. T. B. — it is not to be published for some little time — tho. I am to use it at Cambridge.

Old seeds of Skunk Cabbage are germinating finely in the garden. — and I am also studying its ovology & the whole formation of its embryo

Sprague came up. — has made a hasty colored drawing of Illicium for you, and has taken it home to copy. I will send it on next week.

We should like to know at once whether you will engage Sprague to make the drawings we spoke of, under my direction, that we may make our arrangements accordingly. —

Sprague must do our Bot. drawings — and Prestele cut on stone, I have written to the latter, about price &c. —

We are too late to send a critique on Mulder to the New Haven meeting. It must pass for the present. I have too much else to do.

If you will send me specimens of Obolaria, I will study and figure it.

It is fine to get Cowania so far north; but is it the Mexican species (which I have from Hartweg) or another; as in Cercocarpus?

How glad I shall be to have Lewisia — and the bulbs. Andromeda floribunda has flowered most beautifully in the green house.

Downing writes me, wishing me to furnish him with a set of a hundred or two of common U. S. Plants — New York Plants — for a little herbar. for a friend. I must tell him that I cannot, I am too much occupied. But there is a good chance to dispose of a set of those Eliza collected two years ago, if still on hand. Shall I tell him to apply to you, or not?

As to the curious plant of which yours of the 28th contained a flower & seed. I should have said (from your account & drawing, I have not yet examined it) ~~[illegible]~~ it was Crucif. & near Cremolobus (one of those figd in Hook. Ic. Pl. has radicle between accumbent and incumbent) and Dithyrea, Harvey in Lond. Jour. Bot. for Feb.

(California, Coulter). But on looking at the seeds you sent, I find they have just the appearance of Capparideous seeds, so I put the seeds at once in a pot, hoping they would grow. If they won't I will take them out, and anatomise them, — If truly Capparidaceous, it will be a very curious genus (for a family with parietal placentation) — in which the didymous tendency of Cleomella is completely carried out, after the manner of Cremolobus, Biscutella, &c. — I hope to examine the fragments you sent me, soon.

Monday Morning.

I am obliged to send a small packet to Wiley & Putnam this morning. I add to it the volume for Delessert for you, with directions to Wiley to add to it a copy of Text Book ed. 2, and address to you, that you may send for it. When the spring gets a little advanced now, suppose that Mrs. T. Herbert, and yourself make me a visit! I long greatly to see you all.

The no. of North Amer. Rev. for April contains an article on the Jews by young Miller of Princeton, if I rightly remember (the Editor showed me the Mss. at the time) which is well spoken of. I have read nothing in the no. myself, not even the long-winded article by Bowen on Vestiges of Creation, much of which was read to me in Mss. It is very good in many respects, — faulty in others. I will send Eliza the number ere long. I wrote to Mrs. T. on Thursday. I will write again soon.

Very cordially & faithfully

Yours A. Gray

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

P. S. I have the Voyage of the Sulphur down to part IV, finishing the Californian part of the collection. It contains some new plants within our range, and good remarks. Please let me know at once, or as soon as possible whether Sprague is to make the drawings for Dr Beck and yourself; and if so furnish me with an amended list. Love to all A. G.

12

Professor J. Torrey
Princeton
New Jersey

Cambridge, Tuesday Morning. April 15th (?)
1845

HERBARIUM COLUMBIA UNIVERSITY.

TORREY 166 HERBARIUM

My Dear Friend

Our last letters crossed. Yours of the 8th reaching me about the time my last reached you, I suppose.

I am surprised that my lecture did not come to hand; but am as sure as may be that it was at Wiley & Putnams when Hastings called. I begged Wiley to take special care of it. It laid there so long as to be forgotten. Immediately on receipt of yours I wrote to Wiley calling his attention to it, and begging him, if he had it to drop you a line.

I mailed the N. Amer. Review on Saturday last.

I have a pamphlet for you from Fischer, — to be sent, when I got the drawing of Wickum from Sprague, who has disappointed me, but I think he will come up from Hingham to-day or to-morrow. If you want the drawings we spoke of it is very important that you should come to a conclusion and let us know.

Are the pods of Spirolobium (good name, if char. holds) twisted thus except when old? Of course I want the= mispris.

As to Platanus you know there is a Western spec. P. ~~occidentalis~~ Nutt. (referred by Hooker to P. occidentalis, Hook. & Arn. Bot. Beechey &c.) ~~Sulphur appears to that~~ ~~But Bentham~~ ~~California~~ but which Nuttall had figured under some name, I forget what, in Audubon. — I have seen his specimens, and remember the long strings of balls. — But Bentham (in Voy. Sulphur) has also just described it as a new species P. californicus, not knowing of Nuttalls; — You shall have Voy. Sulphur. But I need both for Benth. Eriog. pp. and pp. Lindheimerianae, which I go a little in studying Plantae at now. You sent me Leafl. Polemon., which I sent to Bentham, as directed.

Hinds collected two new) Malphigiaceae in Lower California, viz. Janusia Californica & Galphimia angustifolia. Both are figured.

Don't lose Janusia! I directed Wiley to send you a copy of new ed. Remind me to give you, in time, corrections of typographical errors. I use it as a Text Book for the Freshman class — 50 odd copies are in their hands; — I drill them thus this term. Next year as Sophomores I drill them in the principles of Zoology & animal physiology (for which a Text Book is a preparing here). My botanical lectures begin to day. I hope they will consume 20 or 30 copies more. — The book is not yet on sale in Boston.

I have heard from Prestele. He says, as a guide to his prices, that he had from 2 to 5 dollars apiece for cutting the plates of Martius Nova Genera, which you know are well filled with analyses. — from 2 to 3 for those of the work on poisonous plants he sent me specimens of — which are fair, but with few dissections — about what you want for Medical plants. and which are done in capital style for coloring. (He sent me some colored ~~copies~~ specimens also).

I infer that he will not leave his community (whose he has a family. He says he left Germany on religious considerations alone — a whole church came together) but will do his work at Ebenezer. He does not say whether he has a press, and will work off impressions it will do very well; proofs can be corrected & sent by mail. It will be quite as well that he should not fall into Endicott's hands. — I believe that is the upshot of what I have to say about him. His letter is in German, I have only had it read to me.

Thanks to Mrs. T. for her P.S. I will write to her soon; and will send some plants right away, letting her know a day in advance — herbaceous — as you will not occupy that old Flora more than this summer, I suppose.

I am expecting to-day a visit from Bates. I thought this the best time, on the whole, to be bored with him. —

I have not yet examined the flowers of the Cruciferous (?) thing. But I have since seen some Cruciferous seeds that look enough like your ambiguous plant.

Do you know whether Fremont's* new Report is printed or printing?

I must break off, to attend the funeral of Mrs. Prof. Felton, who died of the same disease as that which carried off Mrs Leonard some years ago.— I must then collect my scattered thoughts for my lecture this afternoon.

I wish you would send on Herbert to me. I think he would enjoy it here, and I should greatly like to have him.—

I remain, faithfully Yours,
A. Gray

---

* Brevet Captain Fremont!!

Prof. J. Torrey 18¾

Princeton

New Jersey

Mem. for Dr. Torrey—

TORREY HERBARIUM 159

Saturday Boston.—

The Feby. no. of London Journal of Botany has been taken from the Amer. Academy by some person unknown. I cannot trace it, I am sorry to say. There is no other of so late date in Boston.

In our March no. instead of a plate of the papaveraceous genus Romneya— they have given a duplicate of Dithyraea.

It is not your Cruciferous genus—

The raceme foliage— style &c— is quite diff.

Dithyraea— is very near Biscutella. probably too near. Yours is a new & remarkable genus—that you can indicate if you choose [illegible] name. I fear—with the immense press. upon me that I can do nothing more for you for a week or two. I will therefore send the specimens back to New York on Monday, unless I hear from you

A. G.

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

18¾

Mrs. Eliza Torrey
Princeton
New Jersey

TORREY HERBARIUM 26
TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

Cambridge — Wednesday morning, 23d April.
Refer to letter of 17th — 18~~44~~ '45

My Dear Friend. The parcel of Bot. Illustrations, and your favor of the 15 – 21st inst reached me yesterday, — to which I will reply at once — tho' with much haste, as my hands are exceedingly full with various duties, and I have to make arrangement for the reception of 6 cases of live plants from Loddiges, which I expect at the Garden in a few hours. —

First let me say that I sent on Monday (as I wrote Mrs. Torrey I would) a box of live plants (roots) to W. St. for you. — nearly all were named — the unnamed ones you will know at once — Give the Campanula carpathica a good chance, and you will find it a perfect gem late in summer. Pray enrich your borders if you expect them to grow, and do not let the hot sun reflected from the walls of the house burn them up.

I sent an accompanying parcel to W. St. containing the drawing of Illicium. It will be useless now. but I am not disappointed at the result of Becks failure to go on: You see it was important to know. I fear Sprague may be unwell. as he does not come up. nor write. Sprague will draw quite equal to Prestele. I greatly wished (and wish) that you would look to Sprague for Drawing. (leaving Prestele to cut on stone) — as Sprague may be on hand at our command — being a bachelor he can be passed back and forth between us, or I could superintend the making of dissections here for you — which Prestele could not do for himself — and he cannot come to you or me. With the assistance of such work as you wish done, I could engage Sprague and keep him going. I may be obliged to do it at considerable pecuniary sacrifice to myself. —

— You will have received a later letter from me, on Monday. —

I have now a letter from Bentham, a brief note. Scroph. delayed much by Voy. Sulphur, &c. — more than 1800 sp. of Scrophulariaceae! now at Castilleja. — means by Steamer of May to send back your specimens — those received from Fremont's coll. — and the MSS. of all that part of Prodromus which relates to N. Amer. plants, copied out. He says the new vols. of DC. prodr., are very good except Convolvulaceae! — — From Duby I have received — through an unknown hand — his Memoire sur la fam. des Primulacées. I suppose he has sent it to you as well.

Please select the Plants (dried specimens) of Eliza's for Downing as soon as you can 200, and send to him. He has sent me some fine fruit trees. I will, as matter of business send you the 8 dollars for E.—

Now as to the Fremontese plants. I fear I cannot make them a study so as to aid you, certainly not at this moment. I fear I can only answer specific questions.

New gen. Papaveraceæ— That should be noticed. There is a new gen. Papav. Calif. Coulter described in Lond. Journ. Bot. for Feb.? Romneya, Harvey. But the plate of it is not yet given. I have been trying for a week to get to Boston to look at the Journal & say if yours be it (My copy is sent to Sullivant) but have not made out yet. I will try to go tomorrow. But that is lecture day.

I will then compare your queer Crucifera with Dithyraea, Harv. If my memory serves the leaves are same (There are plenty of Cardamines with compound leaves & the leaflets petiolulate). I remember the figure of that had a loose terminal raceme. I will compare in town.

Gaura coccinea. — no doubt.

No. 301 (1843) may well be
" 560 (1844) = Œnothera montana. Nutt. (ex descr.) The subsessile & not hairy pod should distinguish it from Œ. marginata (which you have a specⁿ of).

no. number = a starved Œ. Missouriensis. possibly new: probably not.

751, & 753. = either Œ. pallida or albicaulis var. (Nuttall has confused the two a little.)

(place next Jamesii)

no number. = Œ. n. sp.

81 (1843) = Œ. Missouriensis.

337 (1844) = Œ. alyssoides, Hook. & Arn. Agrees better with a Snake Country specimen I have than with Hooker's figure.

no. number. = Œnothera (Chylismia) n. sp. diff. from Nutt.'s alb.? (you can compare) It sustains that section beautifully.—

Call it Œ. Fremontii, or sisymbrioides .. or erysimoides,—

Another—without number, with the foliage &, somewhat of Gaura coccinea, the flowers &c of Euœnothera, will form a new subsection (between Kneiffia and

Lavauxia, – a very distinct plant. R. canescens, say. – It has an ovate, sharply 4-angled fruit, which is I think septicidal.

§ Gauropsis.

782. (1843) Gayophytum diffusum, Torr. & Gr. –
(but with larger flowers?)

257 (1844) = Ribes insignum?

Your Krameria (no. 425, 1844) is not that of Bentham pl. Hartweg, but most likely it is K. parvifolia, Benth. Voy. Sulphur. p. 6. t. 1. – (he has no flowers; you have no fruit). Did yours come from the Calif. side of Mts. –

He (Benth. Sulphur) has no Malpighiaceæ except the two I have already mentioned, neither of which are yours, –

This is all I can do for you to-day. You will readily enough gather what ones, thus far, it is worth while to notice.

If you wish me to draw up characters of the ~~Oe~~ Oenothera I will do so, if you will let me know at once. and send with the specimens on ~~Monday the~~ Monday next.

The London Hortic. Socy are about to send Hartweg to collect in Oregon and California.

Is the spec. of Pinus Pignon to be returned, or no? I dont like the name Pignon, which is not aboriginal, but Voyageur-French!

In haste. Yours ever

A Gray

I fear I can give you no new light about the Malpighiaceæ. Love to all! Why does not Mrs. T. write?

18¾

Prof. J. Torrey
Princeton
New Jersey

Cambridge, Thursday Morning, May 1, 1845

TORREY 36.
HERBARIUM

Dear Doctor,

I found last evening the parts of London Journal of Botany I wanted in town, and have the satisfaction to inform you that the Romneya is not your Papaveraceous genus at all, nor Dithraea your queer Crucifera. Romneya is a tall, glabrous, Poppy-looking plant, pretty close haul to Poppy except in the slender erect and unconnected stigmata. You can therefore sketch your generic characters without reference to Harvey.

Friday Morning. —

I did not hear from you ~~this~~ yesterday, as I had hoped. You still owe me a letter. I have written to Sprague, asking him to come up, but have not heard from him. I feel quite uncertain, nor what you would have me do, — whether to retain the Fremont plants you sent me ~~for~~ and have Sprague make drawings of the Papav. &c. when he comes, or to send them right back to New York. Your expected letter must decide that. I suppose you only want to mention, in a sort of narrative report — the new genera — as well as some of the most curious species. The Crucif. & Papav. could be mentioned as new genera, by the name you may propose, and their leading peculiarities alluded to. For this, if in haste, you might not need the specimens back just now. Sprague looked at Prestele's drawings, and said he did not know how some of the bright and deep colors were obtained; but that he could draw & paint quite as well as them. He will make dissections well, under our eyes will do all you can wish. — and Prestele will not be able to make dissections alone. Sprague being a bachelor, you can have under your own eye — he can come on and work with you, if you wish. — or when you come on in July you can superintend him here. Of course you do not intend to add illustrations to Fremonts forthcoming Report. You have not time for that. — Nor would it be worth while.

I have written by last steamer to Putnam, and ordered for you also the Engl. translation of Schleiden.

There are many and somewhat grievous typographical and clerical errors in the Bot. Text Book. — If your next letter does not give me other guidance, your ~~pl~~ Fremont plants shall go to New York either Monday or Tuesday next.

Yours faithfully

A. Gray

125

Cambridge. Friday afternoon.
May 45

My Dear Doctor

It is a pity to tax you with postage, but I must write a hurried line by this days mail - which even now I must send to Boston P. O. - to say that Sprague is now here, came in just as I got home this morning - and I am concluding some arrangements to set him at work. And if you will send on the Esau poppy, etc. I will have a drawing made at once - I hope in time for your purposes. Send any scraps you have that will bear soaking and dissection to make out structure, stigmas &c. - You should get this Saturday evening. If you can send to New York on Monday so that the package can come by Express of that evening, I shall get it Tuesday. - But I will say Wednesday for Sprague to come up and draw it. Send on any others you wish to draw, and I will have them done right away. I did not reach Boston until nearly eleven last night, and therefore slept at Mr. Story's.

Best love to all. Tell Mother I shall write either to-morrow or Monday, and arrange some business that there is not time for to-day, as I can hardly get this to the mail.

Stop, I guess I can do something now.

In haste — Yours very cordially

A. Gray

Cambridge 17th June. Tuesday.

(1845-?)

TORREY
HERBARIUM 70

My Dear Friend.

The time draws near when I may expect to see you. I hope your next will fix the day. I have been greatly pressed by visits from local botanists,—and by the necessity to prepare at once notices for Sill. Journ. & N. A. Rev.—or I should have written sooner.

My wants begin to multiply.

1. I want you to bring me some arseniate of potash to put in my glue

2. Will you bring the ~~[illegible]~~ Malvas, & the old Nuttallia group, of your herb. Your Malva pedata* of Fremont Cat. is wide from that plant indeed. I have it now in flower from seed. It is either new, or more likely M. involucrata (I want to see the Lamarckian spec.) Hooker has that or some one like it in flower from Western (Texan?) seeds. If new I shall figure ours, and ~~[illegible]~~ take that opportunity to revise the group, as you know there are some corrections to be made.—

3. What is your name (MS.) for ~~Croton~~ Croton ellipticum? I want to use it.

---

* I see you have Malva involucrata in cat. Mine is that then. though ~~the~~ seeds were marked M. pedata?

I have a small parcel for you from Lehmann:
—also a Linnaea or two —& pamphlets, —
The parcel for me left with Endicott has not
come. Please bring it when you come.

Please —get for me at Stuarts —as you come
or 8 or 10 lbs —of his powdered loaf sugar.
We want it for our strawberries —which, I
suppose are an old story with you, but are
getting to be available here.
These are all my wants for the present.
I dare say more will turn up. I am impatient
to see you all here. Shall you come in the day time?
Sprague is now at work, but has been away
most of the time. I do not hurry him, as he has
time enough and your Fremontias are in no hurry. —I
want now to hear from Prestele that I may send
him some drawings to cut.
As to the plants most desirable to figure from Fremonts first Journey. I should say from these —

Geranium Fremontii.
Phaca digitata.
Oenothera Nuttallii.
Senecio Fremontii, or Spartioides
Psoralea linearifolia.
Gentiana Fremontii.
Fremontia.

Abronia (Tripterocalyx)

The Compositae of the 2nd coll. will furnish something. —

Tell Mother I hope to hear from her in a day or two at farthest, if she is able to use the pen. I meant to have added a P.S. but time will not now allow. The Comet is yet beautiful through the telescope. I hope you will all be here in time to see it. Maggy must come on too as soon as she can leave school. With love to all

I remain, Yours ever

A. Gray

18¾

Dr. John Torrey
Princeton
New Jersey

Thursday. June 26th.

~~1848~~

(1845 [illegible])

TORREY HERBARIUM 71

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

My Dear Friend

Your favor ending with the 23d reached me yesterday afternoon. Well, since you cannot leave home until Monday we must wait with all patience till then. I shall be nearly through with college duties by the time you get here, which will give us more time to be together.

On reflection I think Mrs. Torrey may be quite right about coming in the night-line — to be shut up in the cars the greater part of the day, and unable to lie down, will be more doleful and tiresome than the other way; when Mrs. T. can lie down and rest with comfort from 5 o'clock till two.

It will save the bother of spending the night in New York also.

If you will leave Princeton in the morning cars of Monday, you can send your luggage directly to the Norwich boat — have several hours of day-time in New York, and reach Boston the next morning. This is, I see on the whole so much the best way that I shall expect you thus; and therefore have the carriage at the Worcester depot for you on Tuesday morning early, against your arrival. You must take the Norwich route boat therefore (which saves one change of cars) You will I trust be with me here in good time for breakfast on Tuesday.

I note what you say as to botanical points. Make a pretty explicit memorandum of all the points you wish to investigate with the aid of any books you can command here. We are so well off here and at Boston together, that I am now seldom stopped outright for the want of needful authorities. Of course I consult Klotzsch's paper. — the mss. of it was sent to me long before it was published. You and Klotzsch do not agree, it seems, as to Croton monanthogynum, Michx. Have you any fragment? I can add any notes to the Plantae Lindheimerianae — which must soon be printed now.

I have the figures of Sisyrinchium in Pluk. & Dill. before me, but not knowing the points in question I cannot help you. You can bring your specimens, and I will aid you if I can.

If you see Endicott, learn the price at which lithographic stones can be bought (for Prestele)

B. D. Greene & family are away at Niagara and Canada — will be for some weeks yet. Love to all. — Yours cordially

A. Gray

18¾

Dr. John Torrey

Princeton

New Jersey

200 TORREY HERBARIUM.

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

Cambridge. Tuesday morning.
July 15th 1845

My Dear Doctor

I am sorry that Mother did not request you to bring Jane with you on your return. She has had my invitation some days, and I much wish that you, on receipt of this, would write her to meet you in New York, say Friday morning, and come on with you. Arrange the time and all that as you find most convenient, but do bring the girl, for it is a pity she should be shut up in a gloomy school, while her sisters are enjoying themselves here. If you will only stay — and I really hope you will strain a point for it — to even the middle of next week, we can all together visit Lowell, the Blind Asylum, and perhaps Nahant. I do not say in words, how deeply gratified and honored I feel for this visit. I hope no expressions of welcome are necessary, but I shall part with you all very unwillingly. I have endeavored in my poor, and I fear sometimes apparently ungracious way to render their stay pleasant and putting them in the way of seeing those things that I suppose will most interest them. To-morrow is exhibition. — the next "Class-day." I wish I [illegible] were

now here. I only ask you to come as soon
as you can, in the hope that you will give
her, and yourself, some time here.

We will talk over the Botany matters
when you come. After you left Sprague was
away a good deal. – and since I have been
obliged to keep him at work with some
things like to pass by in the garden. He
will now finish up 4 of your drawings, to be
sent to Prestele. But if you come this week
perhaps I will keep them till your arrival.

Thanks for the mem. about the Vesicaria.
I suppose then I must let it pass as new.

I must leave a little room for Mrs.
T.'s P.S. She was getting on finely till
a day or two since, but, like yourself,
the moment she gets a little strength, she is
too much inclined to dissipate it by hard work.
I think it better economy to accumulate a
little stock of vigor.

Adieu
Yours faithfully
A. Gray.

d

My dear husband I wrote you a hasty line yesterday just before going out but had not gone far when I was obliged to stop at a druggist and get some laudanum but not finding the desired relief I came home and spent the time in bed till just now when I thought it best to enclose James letter as the best appeal to let her come on and see Cambridge The Doct. wrote to her several days ago and now her head is full of it I am better and hope you are also. My dearest husband believe me your affectionate wife

E.S.T.

In great haste

J.T.

5

Dr. John Torrey
Princeton
New Jersey

Cambridge - Tuesday Evening.

TORREY HERBARIUM

14 Aug. '45

My Dear Friend,

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

Your favor of yesterday morning reached me this afternoon. The new P. O. law is an excellent thing, as it enables us to exchange our missives frequently, to send little pieces of news and ask and answer questions without waiting for time and matter to fill up a formal letter.

I must tell you of a little change made in my sanctum here. You are to imagine me writing at a sort of Bureau-escritoire standing under R. Br.'s picture, which I fortunately picked up the other day for $10. — It is of fine old dark wood a century old, — and contains below four drawers — while the upper part, which opens into a fine writing table, has 8 pigeon holes, 6 drawers, and a little special lock up with several drawers & pigeon-holes more. You know I like any quantity of these stow-away places. I have sent up stairs the table which stood in its place, and brought down the round one in its place. — So that I have more room than before.

I have been distributing the Monopetalae into their places in the herb. preparing for gluing and finishing off the Lindheimer Coll. as well as assorting the Texan plants from Wright. I have also to-day put things in order for a renewed attack on the Ericaceae. I shall finish the others, and then turn back upon Vaccinium, the hardest of all. Some time when you are sending

I should like to have your Illicineae, Styraceae & Bumeliaceae. — small pts. except the first.

Have you Nama Jamaicensis? I should like to see the real plant.

The bot. illustrations were sent at once — to be retained by Adams Express, New York till called for. The parcel addressed to your brother, containing Kunth vols. 1 & 2, — your purse — and a pair of india rubber shoes left here — was sent to day.

Thanks for the ripe fruit of the Scirpus, which I had already characterized "achenia ignota". Its name should be S. tripterus. but Olney begs so hard for immortality that I have not the heart to refuse him so cheap a favor.

As to Scirpus capitatus, it is a pity that Brown should have sunk the original Linnean plant, and taken up with Willdenow's. But you are spared all trouble as to ~~taking up the~~ disturbing E. obtusa in your State Flora, since Linnaeus's, the Gronovian plant is not that species, at any rate. — that is, if my observation is correct; for I have marked the plant in Herb. Clayton as E. tenuis! The char. too best agrees with that. But would it not cost more jostling than it is worth now, to go back to that name for tenuis?

Tuckerman is at the White Mountains — has not yet returned. — I should think he would gladly look over the Carices.

Curtis sent me his Mss. long ago. for N. American. I sent him down South, — told him we knew nothing of Dr. Nott in these parts. and that he had best fire his shot there. He sent me a copy in Time. A reply has appeared. and Curtis has already written his rejoinder.

You had best send anything you have for Sprague — It will be no trouble for me to assist him as to the analyses, and outset — —

Letter from ~~Sprague~~ Prestile to-day. Says he has also written you.

No rain just here till yesterday; considerable then and a little more to-day.

Correspondence Herbarium Columbia University.

Bentham's mss. of Scrophulariaceae has reached me — copied from the Latin of the Prodr. Well done, evidently. But he runs to new genera largely. His old sections of Gerardia, for instance he makes genera of.

I am truly rejoiced to learn that your health is so much improving, and trust you will soon be well as ever. But be careful.

One of the Cacti Engelmann sent is now in flower, & Sprague is drawing it! — a new Mammillaria,

Dear Herby was delighted with your letter, and will write again to-morrow. He says, My don't Mother write too? No more to-night from Yours affectionately

A. Gray

P.S. I want the Fremontian Phyllodoce empetriformis to look at & put in herb. Can you send it? I am quite in doubt whether it is not P. Grahami, or P. intermedia

Thursday morning. No letters yet, — tho' I have some hopes from the Post Office this morning. I must despatch this however, after serving as amusements for dear Herbert.

A.G.

Love to all.

5

Dr. John Torrey
Princeton
New Jersey

37
HERBARIUM

Cambridge, Thursday Even.,1845
(Aug. 14)

My Dear Friend

We were waiting anxiously for your letter, which besides the delay at its first start, was some-how missent to Roxbury, from which it reached me to-day. I am right glad to hear from you all again. You do not say whether you had a pleasant trip home. If your visit was in anyway enjoyable I am very glad. None of you could have enjoyed it more than I did. Pray do not talk of "time and trouble" in such a connexion. I am busily at work to be sure, but my health is not like to suffer. I got such a nice rest in July that I am as strong and vigorous as possible. Herbert enjoys himself more and more, I think. He is a capital companion, and I am getting so used to his prattle and so fond of him that I shall not very readily give him up. He is an excellent boy in every respect.

I will send you my botanical illustrations with pleasure. I shall forward them to-morrow, by Adams Express "to be kept till called for." You can send there for the parcel. I have got so used to the more complete series of the Lowell Lectures, that I could not get on with these. Still if they will be useful to you, I know nothing you should not have the use of them again.

Olney wrote me that you had sent him the Psilocarya. Like most young botanists, he is all agog with his new species, — is anxious it should be secured right away, and gives me a pretty direct intimation that he would like to have me give it his own name, and publish it with all speed! He has just sent some fresh specimens, full length, which are very striking — the queer 3-winged stems. I think "it should be called S. tripteris, but suppose he must be gratified as to the S. Olneyi. He is a zealous and generous fellow, and sends me any quantity of any dried specimens I wish for.

Thanks for the specimens enclosed, which are O.K.

As to Juncus nodosus it begins in Linn. Sp. ed. 2, and the descr. as you remark, looks towards what we call J. nodosus — i.e. the plant with fewer, larger & compacter heads. (is not J. echinatus, Muhl. a var. of it?) As to Linn. herb. I remark that Kalm's specimen (the original, I suppose) has only 2 or 3 heads, and those rather less dense than in what I call nodosus, but I take it for that plant. Another specimen I suppose is J. polycephalus. The syn. Gronov. I can not verify with confidence, as Gronov. ed. 2 has no such phrase as that Linnaeus cites. I can make little of the plant of Pluk. t. 92. f. 9. except that it does not look much like J. nodosus. Michaux's J. polycephalus var. a is something of the J. militaris or echinatus sort. His β. is our sparse small-headed polycephalus.

Wright's Texan plants has a real Phalangium crocum, with yellow flowers! Also a new Eupatoriaceous (Ageratoid) Composita, and a new Malva? I wish you could see, I have only one flower left, I send a piece for your opinion.

What was the parcel at Wiley's. Anything from Bentham? Send the sheets of Cacalia by mail, or with a parcel of clothes which I believe Mrs. T. wishes to send Herbert. — I will remember the Cacalia & the Coreopsis. — Hot & very dry here yet. I can only spare you a half sheet, and must close, as there is much to enclose.

Very faithfully yours. A. Gray

In the parcel of Bot. drawings I send a few specimens of Coreopsis rosea.

To Dr. Torrey

Correspondence Herbarium University

Aug or Sept - '45

42.

Cambridge - Tuesday Evening. 1845-1848-

My Dear Friend,

Your letter of Thursday last duly reached me. I have no news since my last to give you. Herbert is still doing finely. He took a cold on Friday, from the lack of sufficient attention to the changes of the weather. He had some sore throat and fever Saturday and Sunday, but is now quite well again. I kept him in yesterday, but to-day I took him to Boston with me - to several places, - among others, to the Missionary House - where we saw the Museum &c - and Herbert made a donation of half a dollar to the funds of the board. He has now for some time been sound asleep.

I was quite gratified and pleased to-day to learn that Amherst College has done itself the honor to make you an honorary alumnus. You are in good company, too, with Gov. Briggs and Prof. Greenleaf; both true and good men.

I have already found time to do the Rhodoreae.

The large strap you speak of that went to Princeton around one of the girls' trunks belongs, not to the Coachman, but to me. It belongs to the Carolina travelling press. You can send it in the parcel, with the bag that held your own bundle.

Very glad to hear that students have come in so finely this year at Princeton. - Hope the medical college will fill up in equal proportion. - I learned to-day that Mr. Everett has returned a sort of non committal letter the proposition of our Corporation — which means, I suppose, that he will surely accept, if nothing better turns up meanwhile. He is coming home next month.

Mr. Albro sends his best regard to yourself and all the family. Now as to your botanical queries. —

Scirpus spadiceus is founded on the plant of W. Ind. Sloane. — He gives Jamaica only as habitat. The plant in his herb. is "W. India, Browne" only. and I note "Very likely different from ours — by its long spikes, &c." The plant in Herb. Clayton — the syn. of which is, cited is our S. spadiceus. Most likely Linnaeus had no specimen when the Spec. Pl. ed. 1. was published. But you see not only the locality but the name comes from Sloane "spicis spadiceis"

Scirpus mucronatus stands in the 1st ed. Spec. Pl. just as in the 2nd, which you have. I know nothing more of it.

Scirpus triqueter begins in the Mantissa. "Europa Australi" — and Linn. adds "Culmus triqueter, angulis planis, nec excavatis," — while to S. mucronatus he adds — (also altering the character a little) "Culmi 3-quetri ~~triang~~, triangulis, tricarinati angulis compressis. Mucro floribus multo longior, ad latus reflexus."

(Do you not imagine our S. Americanus — or what d'ye call it of Kunth different from S. triqueter of Europe?

S. autumnalis Linn. mant. is founded entirely on a Virginian plant from Clayton — a specimen is in his herb. from that source, with the pretty detailed description affixed to it, in mss., — which is printed in the Mantissa. The plant is also extant in herb. Clayt. = our S. autumnalis. Linnaeus never referred to it any East or West Indian plant. At least there is no mention down to Reichard Systema. 1779. But Willdenow adds a syn. of Rottboel, yet with ? and a final note "Rottboellii planta diversa videtur." —

About names Nees is shockingly reckless. —

I do not think of anything to say about Ferns.

Thanks for the fruit of S. Olneyi, from Knieskern.

Tell Maggy that the parcel from the Dunbars has never been sent to me. I have written again to-day.

Have you got the parcel containing Kunth I sent to your brother last week?

Hendecandra is coming into flower in the garden.

I hope to remember the Cacalia mems.

The last steam-packet brings me no botanical news.

Take good care of yourself as to the lecturing.

Wednesday Morning. Herbert is quite well and lively this morning. He sends much love to all of you. —

Faithfully Yours

A Gray

Geo's examination comes on in 10 days. He is boring to it with all his might, studying too hard, I fear, that he may go in *slick*. Mr. Adams sends his regards and compliments.

A. G.

5

To John Torrey. LL.D

Princeton

New Jersey

Thursday morn. — (Sept. 11th 1845. over)

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

38 HE

My Dear Friend.

I have been for a day or two principally busy in the assorting and labelling of duplicates - & have made up parcels for Shuttleworth, Kunze, Schlechtendal, the Vienna Herbarium, Zuccarini, & Tomasini. —

As to Torreya - I had an opportunity to glance merely at a late volume of the Bavarian Academy's transactions, which passed through my hands, which contains an article on Japanese Coniferae by Zuccarini. I meant to have looked at it again, but it is now too late, until we receive the volume for the Academy here, it is on the way. But I notice that while the Taxus nucifera Thunb. is made a Torreya - (as I told Zucc. in '39 it should be) the T. nucifera, Wall. - he has left in Taxus, on account of the staminate flowers, as you remarked. He figures it as Taxus Wallichiana.

I put up the drawings for Prestele in proper order, enclosing yours in your letter. Were the proofs from Emerson's stone sent you by Prestele, or taken off in New York? What price does Prestele mention as asked by the lithographer at Buffalo for striking off? Please answer these two queries in your next, as it is quite desirable for me to know.

Herbert is quite mistaken about my having large drawings made yet. But Sprague will begin next month. Besides the Humboldtian Geographical things, I think of preparing, with what I have, illustrations of about 7 lectures on a sort of passing survey of the more striking natural orders, (phanogs. - of course. I did the Cryptog's last year), dwelling only on the more peculiarly interesting. What think you?

I suppose that will be the easiest way for me to make pretty interesting lectures. The 5 last will be enough for me to write out for Geographical Botany. I am asked to give two lectures at Salem the coming winter: they give $20 a piece. If I have anything quite convenient I shall give them.

I got none of the Moscow Soc^y. plants.

By the way my collection of Kotschy's Nubian plants, I found on laying out for gluing to afford a considerable number of duplicates: the specimens were very good and full. I have laid aside the bundle of duplicates for you, and will send it with the first parcel.

If you get a chance to sell your bargain at Princeton at an advance I hope you will accept it, for I do not much like the idea of your being fixed permanently at Princeton. At all events I hope you will lease all the land except that about the house, for a term of years, under conditions which will require it to be fertilized and left in good condition — for you will find the management of it yourself a regular sink of expense and a constant annoyance.

Will your friend at Hightstown send me another box of Lygodium? I want to send much abroad. He must skin the turf rather thinner, and take it in small patches. thus he can get a great many plants into a small box.

I shall go to work at my Lectures very soon — I am clearing off everything for that purpose. But ere long I must go to Plymouth to dig up Sabbatia — and other plants for Loddiges. &c.

It is now well understood, ~~the~~ indeed the Corporation say so – that Mr. Everett has been offered the Presidency.

We have lost one of our great men. Judge Story died last evening. He was relieved from the first attack, but left greatly debilitated. – but the symptoms gradually grew worse again.

The loss will be greatly felt here, and in the law school I know not how it is to be made up.

Died Sept. 10th 1845.

Tuckerman is away at the White Mountains, where he has been all the time (except two days at commencement) since you were here, – and yet he says has not looked at a plant, but has been fishing! What dependance can be placed on such a fellow!?

I showed him Knieskern's bundle on commencement day, & urged him to look at it next day. But he said he could not till his return at the end of this month. Will Knieskern wait for him? The bundle is still in my hands, and awaits his orders.

Adieu. Yours faithfully

A. Gray

215, 380, 15
25
130
125

Dr. John Torrey
Princeton
New Jersey

TORREY 168
HERBARIUM.

Sept 4 1845? (1842)

Carex flexilis. Rudge ([illegible]) — a specimen was just sent me from Jefferson Co., New York, by Dr. Crane — I suppose — It came in a newspaper with no name.

The anthers of Hypopitys & Monotropa are quite different. The structure of the former are only correctly given in Nees Gen. Germ. where Bartling is cited as the true explainer. Those of Monotropa are perfectly 2-celled from first to last. — I must keep the 2 genera.

Schweinitzia is a most distinct and beautiful genus. I must figure it.

Calypso borealis has just come again from N. New York. — in a letter, — In woods near Brownsville Jefferson Co. — Dr. Wm E. Wood!

Please send me your Ilicineae, Styraceae, Ebenaceae, and more Sapotaceae (Chrysophyllum &c.) from Herbm. —

You must look again at the Euphorbia (Arkansana) you collected in the garden here. It is very different from E. Helioscopia!

Thursday. Did you get my parcel, with Prestiles proofs? —

Sorry not to hear from you.

In haste faithfully
Yours —

A. Gray.

Tell Mrs. T. I hope to hear from her. I trust that her silence is not owing to sickness.

A.G.

Sep
4

V

Dr. John Torrey
Princeton
New Jersey

TORREY CORRESPONDENCE
TORREY 119
HERBARIUM

Wednesday noon — Sept 23 — Sept. 1845

My Dear Friend,

I sat down to write you this morning, but a call from Dr Beck of Philada — to see the Microscope has taken me away till too late for the mail to-day.

Still I must write hastily, tho, my wrist is stiff with labelling plants, which has been my occupation for some time past. I am obliged now pretty much to knock off from Flora till March, tho. I much want to touch over & finish Vaccinium first. But the lectures must now be worked at. Sprague will begin early next month. (Died Aug 12th 1865) Sir Wm. Hooker

I suppose you got a letter from Hooker by last steamer — apprising you of his Fathers (Sir W. Hooker's father) death (which I saw also in the papers. aged 92!) and also asking your interest in behalf of his son (Joseph D. Hooker) for the chair vacated by the death of Dr Graham. Balfour his competitor, also solicits my testimonial, but I am pledged for Joe. Balfour states that my B. T. is one of the books his students use. Perhaps if he is elected at Edinboro, they will use more!

My hand is too tired — (I have this morning also written a letter 6½ pages to Carey, in answer to one of the same length just received from him. He will come here, I think, if his physician thinks him able — He will resume Botany & the formation of an herb. — Speaks very gratefully of your call and offer. —) — to get out of this parenthesis. — I am too tired to write the intelligence in Sept. no. of Journal of Botany about Geyer & his Collections — I send you the number therefore by mail. — I do not think Geyer has done great things in the way of collecting. I am going to subscribe, as I must have them to identify Hookers doings, — but I have offered to share the set I may get with Carey. You must have your Fremont Report out, and sent to England if you can before Hooker begins to publish his enumeration. For Many of his must be same as Geyer's, — You will see that Hooker has complied with ~~follow~~ the request I made to republish the Char. of Fremontia though without the remarks I sent. — I fear a little that Neu Wied is before you — tho' perhaps he has not characterized. Will you re-mail the Journal to Sullivant — making the name Ohio ~~very~~ very conspicuous on the wrapper.

Pl. Lindheimerianae is out. I send you a copy by mail.

A letter from Engelmann this morning. He says Le Conte has returned to St. Louis with the 1st Dragoons — "nothing new in plants".

I have no parcel of Blodgetts Compositae. Did I not have them, and were they not incorporated in Herb., when I was studying the last Compositae for Flora?

I don't see what business "a full-sized Grayia" has on the State Report! You might have used Clintonia.

I have no copy of Gram. Hyp. and so cannot answer your question about C. Willdenovii. The Rio plant is C. Steudelii. I do not know how truly distinct. But is any of mine C. Backii? I thought that was high northern. Love to all, Yours affectionately

A. Gray

I had a message from Mrs. Greene on Thursday last informing me of Mr. & Mrs. Field's arrival that morning. I called that evening on them at the U. S. Hotel, left my card, with a written request that I might see them at Cambridge — I stayed home some days, expecting Mr. F. would call, — but he did not. He was doubtless in good hands at Boston, & doubtless had every attention and his time well occupied. Please tell him I should have been very glad indeed to have seen him, and shown him any thing at Cambridge and about. —

A. G.

PAID 5

BOSTON
SEP
25

To Dr. John Torrey
Princeton
New Jersey

(1845)

(Oct. 16 ?)

Cambridge, Mass. Saturday.

1845

TORREY
HERBARIUM. 39

Dear Doctor

I must not neglect to apprise you that Dr. Bromfield — who called on me two days ago — and will be here again to-day — speaks of going on to New York on Monday and of making you a short visit. I told him that you thought of going on to Philada with me. — So he proposes to get what time he can with you, by going to Princeton with me on Tuesday, and ~~thus~~ staying till Wednesday Evening. — So you see you are like to have a swarm of fellows down upon you at once. for Agassiz will also hope to dine with us on Wednesday. — He is now at New Haven — — A pleasant letter from Joe Hooker is come — no particular news. —

In haste
Yours ever

A. Gray

orchises

Dr. J. Torrey
Princeton
New Jersey

Cambridge. Wednesday –

1845? (Nov. 19?)

40
HERB

Dear Doctor

I got home safely & nicely Monday evening, and have nearly cleared my tables of their accumulations during my absence –

I have just unpacked the little parcel you selected from Chapman's bundle – The Scirpi. marked Herb. Torr. are duly laid in your pigeon-hole. You did not add the Phloxes. – In your first parcel, at your convenience, please send them, also any Hydrophylls, as I have your whole stock in those families.

There are some Vacciniea – in Chapman's – (V. Myrsinites &c.) which please send. –

Friday

I send you by this mail, in a pamphlet, two Scirpi. from a parcel by Crane, which I cannot name. Please tell me what they are. – The pamphlet itself, also, is perhaps worth your reading. –

In haste
Yours faithfully
Asa Gray

No 7. El. palustris – var. [illegible]!

I have once or twice begun a letter to Mrs. T. — but a thousand distracting interruptions have cut me short. —

Lowell is going to order — through me, not only Schkuhr's Ferns — &c. — but Trinius' Icones Graminum, & old Host Icones Graminum also.

A. Gr. —

Dr. T.

Extract from Bentham's Journal. (Letters) in Hook. Lond. Jour. Bot. for Oct. –

"Prof Wikstrom is most anxious to increase it, and spares no labor in making up parcels for exchange; but the Academy is unable to allow sufficient funds for the purchase of specimens, and whether from the difficulty of communication or the want of time on the part of the generality of botanists for keeping up distant correspondence, he has experienced much disappointment in not receiving the expected acknowledgement from those to whom he has sent specimens." p. 531. –

I copy this, since I have an impression that you have received parcels from Wikstrom, possibly as yet unacknowledged. –

Prof. John Torrey
Medical College
67 Crosby
New York

Applies to Wood's manual

Nov. 15? 1845

Saturday Evening, Cambridge 1846 ~~1847~~

TORREY CORRESPONDENCE HERBARIUM COLUMBIA

TORREY HERBARIUM 121

My Dear Friend

I was extremely glad to receive your kind letter of the 5th — for I had not heard from any of the family, except one letter from Mrs. T., since I was last at Clermont and I began to be alarmed lest she or yourself had been sick.

Take good care of yourself now that you have begun your winter's labors. Your health is too valuable and important to be unnecessarily exposed. You have probably seen Carey before this, at 22 Bank St. and I hope will see him not unfrequently, of an evening. He will have told you of Dr. Chapman's very generous contribution to his Herbm.

Blodgett does not seem to insist very much upon a set of his plants, which I suspect could not at this time be very well made up for him. I am glad you think he would send us live plants, like that Convolvulus &c. Do you think he would like a small remittance, and would send live plants, bulbs, cacti, & seeds. By improving a little opening that occurred, and which I will explain when my tired hand allows me to write more readily — I think I shall be able to use a small some — a hundred dollars, maybe, for the purpose of getting fine plants. I had contemplated it for Lindheimer, but perhaps Blodgett might have some too. If I do not enclose Blodgett's letter in this, I will send it in a parcel next week. When you write, please sound him as to live plants.

The Government gave Dr Hooker the Bot. Garden at Edinburgh, — so Lyell told me — but the Town council were determined not to have their professor nominated by Government. I suppose Hooker will not keep the Garden by itself, but I hope will give it up at once to Balfour.

I am glad you have settled the quiddity about Onoclea obtusilobata — in good time too.

In ~~Schk~~ Kunze's suppl. to Schkuhr fasc. 2. there are no N. Amer. Carices. In no. 3. are

Tab. 23. C. supina, Drejer, & C. nardina. Fries.
" 24 C. subspathacea, Hornem.
" 25. C. Michauxii, Schwein.
" 27 C. Careyana, Dewey.
" 28 C. aestivalis, Curtis
" 29. C. stylosa. Meyer That is all.

I got back last evening from a short excursion I made to see Oakes, and get some live plants he brought from the Mountains &c. — but more especially to settle a matter that I will write of on Monday. I will now merely say, while I think of it that I should be glad if you would send me that Volume of Swartz where he describes & figures Epipactis (Listera) convallarioides. I want to convince Oakes, if I can, that the Southern mountain plant is the same as Swartz's. —

Monday Morning.

Sprague has been at work for a day or two, — has just got his hand in, and is producing some beautiful work. I have got my lectures blocked out, so that I do not feel great anxiety about them — not enough I fear, for I should do better if I could get up more heat, so as to work harder at them: — but that is wearing.

CORRESPONDENCE HERBARIUM

My visit to Oakes was chiefly to this intent. You know that I have been waiting & waiting for Oakes to give (not his New England Flora, which I fear he will always leave unfinished) but a prodromus of it, for my use & for New England. — The consequence of waiting is that Wood is just taking the market, vile and worthless as his Flora is, ~~both~~ against my B.T.B. mostly by the means of his Flora. Letters from Hitchcock & elsewhere all point to the probability that they will have to use his book — (of which by the way he is preparing a 2nd edition, which he cannot but improve), and ask me to prevent it, by appending a brief descr. of New England or Northern plants to my B.T.B. A plan has occurred to me by which this might be done, were it not that I will not tread on the heels of anything that Oakes (who has devoted a life of labor to this end) will actually do.

As something must be done at once, I have proposed to Oakes — to make myself the necessary Conspectuses of Orders, — Analyses &c — to join the proposed thing on (or to dufftail (? dove-tail) it into the Text Book. — and also to furnish the generic characters, — and he is to write the specific characters, & all that for New England plants.

– I give him as limit 250 pages (brevier type) 12mo. (say 300) and insist upon having the greater part of the copy on the 1st March – and that it shall be published on the 1st April. That I may cover the ground of Wood, and introduce it into New York, I propose, if you think it right & proper, – to add the characters of the (about 150) New York plants not found in N. England, distinguishing them by a †.

Oakes promises to *do it*. But our understanding is explicit that if he cannot get through with it in time, he is soon to let me know, and to furnish me N. England matters. – when I am to do, not exactly this, but a more compendious *Manual of the Botany* of New England, N. Y. N. J. & Penn., – that is the Northern States proper. It will be imperfect & hasty, but it will prevent Wood from fixing himself so that he cannot be driven out. –

I propose to have a sufficient no. of copies of this, (in whatever form it may appear) bound up with the *B. T. B.* to meet the demands of the *one-book system* in New England & New York; and to afford it at a price reduced to minimum, so that nothing is to be made out of it, at least out of 1st Ed.

How does this all strike you? I am convinced that something must be done, and I will see if we can't have a *very popular*, & at the same time a pretty good book. –

George sends his warm regards. –

I am Very affectionately
Yours

A. Gray

HERBARIUM 310

Cambridge — 21 November. 1841 —

My Dear Friend

Your favor of the 17, with the very opportune $50.— enclosed reached me yesterday afternoon. Your former letter also is still unacknowledged. The box I sent a week ago — with the letter nailed on the cover. I trust came safely to the Med. College. —

As I must write in haste, and in a rambling way, I will first speak of a matter which may come to something, and therefore should be kept in mind, tho' entre nous. Lieut. Davis U.S.N. a capital fellow and with a true appreciation for science, had the offer a few weeks ago of 2d in command and principal surveyor of a little expedition of 2 small vessels to survey the coast &c — of Nootka Sound & the rest of Oregon. As he has a good position in the Coast Survey and Bache wants to keep him, he declined. — The principal selected by the Secry — also declined, and so it dropt. But Davis is going to Washington soon, and he may have the offer of the affair all in his own hands. — If he does he will take it. In that case, there are 2 births that may be filled one by a young botanist — the other by a Zoologist. — each $500 per annum viz. Capt's clerk and Purser's clerk. — the duties of both of which the Capt. offers to perform himself, whenever the naturalists find anything to do. So we must look out for the persons, if anything should come of it, — of which I shall at once be apprised. Who for Botanist? Young Le Conte I suppose would be Capital for Zoologist. — but I fear he would not be a very agreeable person on ship-board with his Commander. and this must be greatly looked to, as a good gentlemanly fellow would have every possible advantage given him.

I am not very sorry Le Conte did not call, unless I could be useful to him, as I could not spare him time.

So McDonnell is back! I suppose it was intended he should come back, and, in fact Fremont wants no Naturalist with him. — short sighted on his part; but very natural. — Shall be glad to see the plants you are to send, — will cheer me some evening when fatigued with other labors. Have you seen Casey? He leaves town in a few weeks, for a month or two. —

I have driven Oakes so absolutely into a corner that I think he will work for once, — The man's preparations & materials are enormous, & for his sake I hope he will. If he does not I shall know in time — that is as soon as I can use the knowledge, — and then the plan may take such form as may be deemed best. I should then wish to make it more absolutely a suppl. of Bot. Text Book, — but only for proper north. In the way in which it would then be done with Persoonish compactness & brevity, I doubt if you would care to engage in it. As soon as we can get out the proper Botany of the U.S.— I should wish it to supersede this to a great extent. In my hands, I would sell it so cheaply as to make very little, except as it promotes the sale of the Bot. Text Book. I would sell the Text Book with it for $2. or less even. The great object is to keep the ground clear by running an uncompromising opposition against the threatening interlopers.

My Lectures are to commence Jany. 13.—

I am printing for Sullivant the labels & title pages of Musci Alleghanienses sumptuously.—

The Steamer is probably in. I will keep this sheet open for any intelligence that may come.

You must be a little lonely at Med. coll.

Yours ever.— A Gray

V

Prof. John Torrey
Medical College
No. 67, Crosby St.
New York

C. D. Meaney 4ct.

TORR. HERBARIUM 41.

Monday —

1845?

Nov?

My Dear Doctor

Thanks for your letter, enclosed to Hooker.— I have written to Madame McG. at Montreal.— Please ask Hastings to make himself extensively useful by sending on the package ~~by~~ from Hamburgh, he advised.— the parcels from Hooker.— and those I last wrote to Mr. Wiley for.—

I have a painful swelled face — the first time this season — but am at work.

It seems a little odd that Maria Hooker should have married a Presbyterian Domine, — though I dare say she has done very well. I shall hope to see them in the Spring.

I did not suppose the extract about Nicholson applied to you in particular, but thought you might possibly come in for a share

I have gone to posting up the Supplementary Compositæ — slow work.—

There is a new & very fine Vernonia from Texas. Pectis ciliaris from Key West. & 3 Pectis, and two new subgenera (equivalent in value to Pectidopsis) from Calif. Coulter. — A new sp. (& subgenus) of Ageratum from Texas, who is going to be a very good correspondent (I have sent him Flora & am to furnish him with other books)

Brickellia, nov., Texas, Lindheimer.
Eupatorium of a new section, Calif. Coulter.
Erigeron modestum, nobis = Distasis modesta DC. Tex. Lindheimer
Townsendia Fremontii, & the other new genera of Fremont. 2^{d} Ex,
Keerlia, n. sp. Tex. Lindh. & the genus nearly characterized
& limited.
Solidago monticola & S. lancifolia raised from β.? to sp.
Aplopappus Coulteri, n. sp. Calif.
Pluchea oblongifolia, DC. Key West Blodgett.
Pterocaulon virgatum, DC. Texas.
Tessaria borealis, n. sp. – of which I ask locality in
mem. enclosed.
Lindheimera Texana, n. gen. aff. Engelmannia & Berlandiera
but very distinct!
Franseria Coulteri n. sp.
F. tenuifolia (§ Xanthiopsis) n. sp. Calif. Coulter.

Lastly, for the present that Salsola like Shrub. of Fremont, 2nd Coll. which I sent back to you as a Chenopod. but you returned as Comps. Ambrosiaceae – which it is. – Like Franseria only great winged & scarious scales on the closed involucre in place of prickles or spines. – Entirely new genus. What shall we call it? Pterostrobus? Mohavea, after Mohave River?

I am curious to know about the queer plant from Chapman.

We have a new true Rutaceous plant from Texas.

I hope you safely got the 4to pamphlets I sent to you via W. & L. & Hastings. Send Carey his parcel by Hastings — You know his number. —

A fine order for Botanical books is going to Leipsic by next steamer. for Mr. Lowell. —

In usual Haste Yours truly & faithfully

Asa Gray

Prof. John Torrey
67. Crosby St.
New York

The envelope of your last, addressed by Hooker's
was addressed to "Boston", or I should have received it
some days sooner.

TORREY 155
HERBARIUM

Cambridge Thursday Evening
(ans'd by Dr T. Dec. 25 -) Dec - 1845

My Dear Friend

I fancy you must be quite as busy as I am myself — for it is a very long time since I heard from you. But you have a holiday just before you — during which I may hope to hear from you. If I was not so full of matters that you cannot expedite, and which would almost prevent me from enjoying your society, I should be vastly glad to have you spend a week with me. But you will prefer to have that time for Clermont. Carey writes me that you are not looking very well. I hope the bronchitis is not troubling you again. I have not recd. the parcel you announced some time ago, — tho' — since that I have had one or two parcels from Wiley & Putnam that it might have been added to.

When you are done with Kunth — after the holidays will do, I should like to have it — as I may wish to refer to it while preparing my Grass-lecture.

I remember you have a specimen of Maise with the grains all involucrate. Will you, at the same time, give me the use of it, and any other quiddities you may have of the sort. —

To-day I met with some specimens of the original Gutierrezia — from coll. by Gillies in Chili — sent me by Fielding. — The authentic G. linearifolia a. & β. Hook. & Arn. As you will be glad to have it, I send you some of both forms.

which I think will reach you safely in this letter. It looks exceedingly like our G. californica. — and must be the same unless there be some inside characters.

Did I not send you the debate at the Edinburgh Botanical election? Do not forget to return the paper.

Martius sends his best remembrances to you. I enclose his letter. I mean a letter for him — in order the better to protect your specimens. — and beg you will send it off by the next Havre packet. (either thro' letter-bag at the Exchange — or deliver it, with a penny at the Post Office window which I suppose will do as well. —

I had a short letter from Mrs. T. to-day. — As she speaks of her health as poor, I very it is very much so. You must both take good care of yourselves. — that is a point of much importance indeed. —

Ever Faithfully Yours
A. Gray.

[illegible] 246.
[illegible] 248
— [illegible] "
— [illegible] "
— [illegible] "
— [illegible] 249
[illegible] "
[illegible]
[illegible] 249
[illegible] 252

Date of Lyell's 2d visit to Am. from his life & letters.

Cambridge. Friday Morning. —

Dec. 1845 ?

Lowell Lectures

TORREY CORRESPONDENCE LIBRARY

TORREY 156 HERBARIUM

My Dear Friend

Your letter of Monday came duly.

What a great loss for Princeton the death of Prof. Dod must be. I cannot yet realize it at all. — but it must be felt as a deeply afflictive blow at Princeton, — and his young family left helpless. and I suppose with little of this world's goods. His poor widow will indeed need much grace to bear it with becoming resignation and trust.

I know not how it happened that the box of plants did not come to you on Friday. I fear the plants suffered a little for being so long packed. They were well packed, I believe, but I fear the flower-buds ready formed were lost.

The Nootka Sound expedition I fear will not be just yet revived. Bache does not wish to spare Davis, who is now at Washington, and has charge of some pretty important researches on the Gulf-stream. On his return I shall have specimens of the *mud* brought up from very deep soundings in the Gulf stream. — I hope to get some for Bailey — as I suspect it will contain tropical *Polygastrica* &c.

I fear I have misunderstood you on a former occasion, and got into a scrape. I understood — in my own mind the impression was very distinct, that the set of Carices from Knieskern was to be *given to Tuckerman*, on condition of his ascertaining the names to be correct, or rectifying. Accordingly when he brought back the parcel, and told me they were all right, I told him the specimens were for himself. — he seemed very glad to have them, and I fear has distributed them ere now. I told him he must write to Knieskern, however, & give him the information he desired. He said he had no names to alter: &c.— but would write. I am sorry they did not go to Carey, who knows them quite as well as I. Write me at once what to do. If Knieskern has the same things at home, named as he sent those, he gains nothing by having the specimens back, as the names were left unchanged. I feel worried about it.

The parcel for me, if small, I think might come in a box that John Carey will soon be sending to me from Banks St. — containing all my Grasses & Cyperaceæ (He goes to Buffalo in a week or so); but perhaps it had best come by express, or go to Wiley & Putnam, who may send in boxes to Boston booksellers.

You are certainly booked for a set of Musci Alleghanienses direct from Sullivant, & if not, (which there is no doubt of whatever) you shall have one of the sets which will fall to me. The printing is delaying while proofs are exchanged between S. & myself.

Dr. Wyman is at Richmond. ~~Silli~~ The editorial in the Advertiser is capitally done. — While it tries hard to shield Silliman entirely, it, by republishing his letter, does in the quietest way set him out in the way that letter, and the indomitable alacrity of involving himself in every humbug afloat — deserved. I wrote to Princeton two days ago. George sends his best regards.

When you see Dr. Alonzo Clark, will you -with my compliments- remind him that I have never received back again the pamphlet on the Microscope by Ross, which belongs to the Lowell Microscope, and which he was to return from Boston.

Lyell has done better than before, but is not in my mind a good lecturer at all. He has had a fine audience throughout. They have been so much interested in his later lectures occupying - tho' under a rather different aspect the ground I am to take up in my four last lectures on Geographical Botany - that I feel quite emboldened to go on with them. I am sure I can present the subject more clearly and intelligibly - for Lyell jumbles much. He finishes this evening, and I believe goes South. I see him & Mrs. Lyell now and then - chiefly at the Lecture room.

By the steamer I had nothing to speak of except a nice letter from Joe Hooker - which had much intelligence that you will be interested in. I enclose it in a letter to Eliza. If you do not go home to-morrow, they will send it to you from Princeton.

I send you herewith the proceedings of the Town Council of Edinbro - on the election of the Professor - in the newspaper part of the last Gardener's Chronicle. Be sure to send it back again, not to break my set. -

Arnott, you will hear of in Hooker's letter.

is reviving, and is again a candidate for the Chair at Glasgow! I wish you would write to him.

I do not yet hear more from Oakes. I shall soon know if he is at work —

My Lowell Lectures begin in six weeks from Tuesday next — & are done on the 20th February. I have got them pretty well blocked out, and have no doubt I shall make an interesting course. —

I must not forget to tell you how pleased I am to find out how pretty Mr. Lowell has taken root in Botany during the last year or so. He is getting zealous, is accumulating a splendid botanical library. (I enclose to you the Catalogue he just made out for me. Send it back in your next letter) — he has already ordered at my suggestion Royle's Himalayan Botany and other costly works, — and says he will order anything whatever that I want! He inquires to about mode of dissecting flowers &c — under his little Chevalier microscope — and altogether worthy of sedulous cultivation. He joins me in a remittance to Lindheimer for Texan seeds, bulbs ~~bulbs~~ & live plants. — subscribes to the Lindheimer dried plants. — and — if you will send Kriesken to Santa Fe, and he will collect live bulbs — cacti, &c — I will venture to subscribe for Mr. Lowell & myself $200 worth of these & dried plants: if you think he will be efficient. But with my present opinion of his dilly-dallying disposition, I would not take the responsibility of an advance.

But I must close — In haste

Yours affectionately

A. Gray

GRAY CORRESPONDENCE HERBARIUM HARVARD UNIVERSITY

Dec - 1845

Tuesday noon -

TORREY 158
HERBARIUM.

My Dear Friend

I have just time for a line to notify you, that I send a little parcel (paid) addressed to you at Med. Coll. to-day. It contains some little things for the girls.

My misgivings about the Fremont's Report sent to Hooker by the Clerk of House of Reps - are confirmed, - as you will be sorry to learn. - In a letter from Hooker, after thanking me for Lindheimeriana - he continues. "I wish our friend Dr. Torrey had adopted an equally economical mode of sending me on the Report of Fremont's Journey. He kindly ordered an official copy to be sent to me, and it certainly bore an official superscription, but the privilege of franking unfortunately extended no farther than the Amer. boundary, and being sent by steamer from Boston & posted, it came to the agreeable sum of £3.15. This is the more vexing because parcels come free to me in the Mail-steamers - out of the mail, etc. etc. On the same day I had from India 3 other such letters, amounting in all to £ 9.!! "

No news — In haste

Yours ever

A Gray

had from India 3 other such letters, amounting in all to £ 9.!! "

No news— In haste

Yours ever

Dr. John Torrey
No. 67 Crosby St
New York

Thursday

TORREY 183
HERBARIUM

1845

Dear Doctor

Though I have sent one letter to-day, I must despatch another, to ask you to bring with you Vesicaria repanda, Nuttallii & pallida! I want to determine one that Engelmann indicates as a new species (Texas, Lindheimer) but which is I think most likely V. Nuttallii.

Friday morng —

I must send to the office without waiting to fill this sheet. We will do up all botanical talk when you come. — Mind I shall await your arrival at the Norwich & Worcester depot on Tuesday morng. Can't you bring along Miss Jane too? She shall be truly welcome.

Yours ever. A. Gray.

Dear Doctor

I enclose poor Carey's letter to you. Pray see him. I have very pressingly invited him here. There is a paper of Zuccarini's about Coniferae, which has something about Torreya interesting. — Remind me, and I will write you of it.

Taxus nucifera, Thunb. he makes Torreya — rightly —
T. — " — Wall. = Taxus Wallichiana, Zucc.

In great haste Yours

A.G.

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY.

1845?

TORREY HERBARIUM 169

Prickle
Aquifoliaceae &c.
Carey
Commencement
Holton, Pratt
House -

Alb. N.Y. 10

Dr. John Torrey
Princeton
New Jersey

Saturday Morning 1845?

TORREY HERBARIUM 59.

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY

Dear Doctor

The parcel with your letter of Monday reached me yesterday. (You will before have received a letter of mine, in which I agree with you that Prestele should not fall into Endicotts hands, and besides he will not leave Ebenezer.

I have just turned over the Fremontian plants you send. The Malpighiaceae? you send are not those figd by Bentham — and I should suppose not Malpighiaceae at all. — I will look at them and the Anthericas — some of which are new. —

As to the Cruciferous plant, the trifoliolate leaves should not stand in the way. Look at Cardamines and Dentarias. And your plant is I doubt not from recollection of the figure (which is not before me) a Dithyrea perhaps D. Californica, Harvey. That however had a regular terminal raceme, rather loose. Is yours in the natural state? or do the dense axillary clusters come from the top having been bitten off?

Harvey has also a new gen. Papaveraceae. I hope it is not your fine one!! I will look at the Feb. no. of Lond. Jour Bot when I go to town.

I have commenced studying the Lindheimer Texan pl. which I hope will hereafter prove more and more interesting. — He is now way back on the Colorado where he says he hopes the plants have no Latin names!

As to Bowens article, I told him his paragr. about Geologists & was all gammon, and made him strike out a part of it, but he was obstinate about the rest. Peirce & myself told him plainly he was not fit to write on those subjects. I wonder he did so well. Have you in "New York plants": — Quercus macrocarpa from Schenectaday and throughout Western N.Y.? It must not be overlooked. Yours ever,

A. Gray

18

Mrs. Dr. Torrey
Princeton
New Jersey

Botanic Garden. Friday evening
143 7 o'clock — 1846 1845
NY

My Dear Friend

Mr. Adams brought me your most welcome letter as he came home to dinner just now — and I will hastily reply to it at once. I have a sudden attack of my customary swelled face — caused I suppose by some exposure in superintending the transplanting some trees — which unfits me for work this evening.

I can not express to you how welcome your letter was to me. I have heard from none of you since your last from New York — when Mrs. T. was with you, and I have been for some time nearly half crazed with anxiety filled with the idea that Mrs. Torrey must be again very sick, and yet wondering that I should not be informed of it. They have been much occupied at Clermont, I suppose.

Only two or three days ago I received a bundle from New York which contained Fremont's letter of last September. Had I seen that at first I should have saved you some anxiety, and myself some reproaches — for I see I have done wrong. From your letter I merely inferred — wrongly enough — that Fremont did not want his projected trip talked about. Hyman had frequently asked, before Fremont's return, if he was likely to go again, and if he thought he might accompany him. I felt therefore no hesitation in speaking to him, — telling him it was not to be spoken of, and relying fully upon his discretion. Some time after, having a letter of Col. Aberts to answer, I took the liberty to mention Wyman to him in case Fremont should go again. I see this was wrong, and when you write again, and when I saw Fremont's letter, I was very sorry for it. When you write Fremont, I beg you will put the blame on my shoulders heavily. He will see that you were not blameworthy, for nothing is more natural than that you should mention botanical plans to me. There is no danger of Fremont's plans being any further disseminated.

I thought before this I should have examined some of the to-me-unknown compositae of his collection, but hard work at text-book has prevented. I will show you some drawings on blocks, when I come that will please you – by a young artist who is sitting by my table.

When Fremont's new Report is out, I shall be inclined (time allowing) to write a slap-dash Review of it & the former for the North American giving some spirited extracts! &c–

So Maggy staid at New York all this while. I thought she had returned with Mother.

I suspect Bory St. Vincent will prove a better correspondent for receiving than sending.

I hope to bring you all of Lindley Orchideae that I can get. My present view would be to come to N.Y. about Tuesday week. I trust the College will do very well for you. Love to Maggy.

Yours affectionately A. Gray

FORWARDED
BY
[illegible] & CO

Prof. John Torrey
67. Crosby St
New York